Welcome to participants and attendees

Welcome to the 16th 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 1,350 students will present their findings at both the Durham and Manchester campuses, representing academic achievements in every college and school and the support of more than 325 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

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

This year, more than 1,350 UNH students mentored by more than 325 UNH faculty members will present their research and scholarship. Presentations will represent many disciplines as well as multidisciplinary learning communities where empirical research, engaged scholarship, and creative scholarship result.

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

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

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

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

Lynne D. Cooper, Chair, URC Planning Committee
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All events are free and open to the public.
Accessibility accommodation requests may be directed to Lynne Cooper at (603) 862-1997.
FRIDAY, APRIL 10
6–8 p.m.
2015 Senior B.A. & B.F.A. Exhibition and M.F.A. Thesis Exhibition Preview Reception
Museum of Art, Paul Creative Arts Center (6)
(Exhibition runs April 10–May 15, 2015)

TUESDAY & WEDNESDAY, APRIL 14–15
Tuesday, 4–8 p.m.
Graduate Research Conference (GRC) Poster Presentations
Whittemore Center Arena (8)
Wednesday, 10 a.m.–4 p.m.
Graduate Research Conference (GRC) Oral Presentations
Holloway Commons (2)

WEDNESDAY, APRIL 22
8 a.m.–5 p.m.
UNH Manchester Undergraduate Research Conference Technology Day
2–5 p.m.
Computing Technology Project Poster Presentations
Pandora Mill, 2nd Floor, 88 Commercial Street, Manchester
8 a.m.–5 p.m.
Engineering Technology Senior Project Presentations
Pandora Mill, 2nd Floor, 88 Commercial Street, Manchester
11–2 p.m.
Thompson School of Applied Sciences Student Showcase
Stacey’s, Cole Hall (10)
Noon–2 p.m.
Paul College of Business and Economics University-wide Paul J. Holloway Prize Innovation-to-Market Competition Charles & Miriam Nelson Poster Round
Peter T. Paul College Building (11)

THURSDAY, APRIL 22
10 a.m.–1 p.m.
UNH Manchester Undergraduate Research Conference Cinema Arts Day
University Center, 400 Commercial Street, Manchester
Noon–2 p.m.
History Department Undergraduate Presentations
Memorial Union Building, Rooms 334, 336, and 338 (3)
12:40–2 p.m.
The Naked Arts—Creativity Exposed! (Act II)
Paul Creative Arts Center, M-223 (6)

FRIDAY, APRIL 24
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, various rooms (3)
10 a.m.–5 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)

SATURDAY, APRIL 25
7:45 a.m.–2 p.m.
24th Annual College of Life Sciences and Agriculture (COLSA) Undergraduate Research Conference
Memorial Union Building, Granite State Room, Theatre II (3)

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

TUESDAY, MAY 5
1–5:30 p.m.
Paul College of Business and Economics University-wide Paul J. Holloway Prize Innovation-to-Market Championship Round
Peter T. Paul College Building (11)
URC 2015 Campus Map

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

For directions to UNH Manchester go to www.unhm.unh.edu/directions.html or call (603) 641-4321.
2015 Senior B.A., B.F.A. & M.F.A. Exhibition and Preview Reception

Friday, April 10 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.

A list of participants will be available at this event.

Graduate Research Conference (GRC)

Poster Presentations

Tuesday, April 14 4-8 p.m.
Whittemore Center Arena

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.

Oral Presentations

Wednesday, April 15 10 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.

UNH Manchester Undergraduate Research Conference

Oral Presentations

Tuesday, April 21 10 a.m.-2 p.m.
University Center, Manchester

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

Daphne Galatas
Communication
A Modern Greek Tragedy
Adviser: Judith Kumin

Nelson Gbeve
Communication
The Sexual Objectification of Women Is Morally Wrong
Adviser: Jeffrey Klenotic

Sean Lavelle
History
Political Dogma of Antebellum Manchester
Adviser: Robert Macieski

Stephanie Parent
Politics and Society
A Comparative Study of the Current and 19th Century Anti-Slavery Movements
Adviser: Melinda Negron-Gonzales

Alan Provance
History
Bread and Roses: The Simultaneous Struggle of Women’s Labor and Women’s Suffrage
Adviser: Robert Macieski

UNH Manchester Undergraduate Research Conference Technology Day

Engineering Technology Senior Projects

Wednesday, April 22 8 a.m.-5 p.m.
Pandora Mill, Manchester

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

Kevin Annis
Electrical Engineering Technology
SNMP Utilization and Application
Adviser: Michael Jonas
Thompson School Undergraduate Student Showcase

Wednesday, April 22
11 a.m.-2 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 food services management and forest and horticultural technology.

Hannah Bogart
Integrated Agricultural Management
Utilizing GIS to Determine Suitable Locations for a Community Farm in Brunswick Landing in Brunswick, Maine
Adviser: A. Richard Vannozzi

Emma Brunet
Integrated Agricultural Management
A Business Start-Up Plan for a Farm Stand in South Hampton, New Hampshire
Adviser: Andrew Conroy

Townsend Carmody
Integrated Agricultural Management
All for One Farm: A Diversified Farm that Engages and Educates the Community
Adviser: Andrew Conroy

Manuel Catala
Trent Urie
Integrated Agricultural Management
Utilizing GIS to Determine the Best Areas for Corn Production at Shadagee Farm in Craftsbury, Vermont
Adviser: A. Richard Vannozzi

Whitney Covill
Civil Technology
Utilizing GIS to Determine Suitable Locations for Wind Turbines in Hampton Falls, New Hampshire
Adviser: A. Richard Vannozzi
Robert Dolan
Integrated Agricultural Management
Aquaponics: Sustainability Applied to Greenhouse Operations
Adviser: Andrew Conroy

Robert Dolan
Integrated Agricultural Management
Utilizing GIS to Identify Potential Properties for an Aquaponics Concept Restaurant in the Portsmouth, New Hampshire Area
Adviser: A. Richard Vannozzi

Lucienne Dubois
Integrated Agricultural Management
Utilizing GIS to Inform Pasture Rotation Strategies for Livestock at Turning Point Farm, Durham, New Hampshire
Adviser: A. Richard Vannozzi

Natasha Evans
Integrated Agricultural Management
Using Land Resources More Efficiently to Improve Agricultural Productivity in Jamaica
Advisers: Andrew Conroy

Claire Fletcher
Integrated Agricultural Management
Utilizing GIS to Determine Ideal Search Locations for Wild Chanterelle Mushrooms in Franklin County, Maine
Adviser: A. Richard Vannozzi

Andrew Haggan
Integrated Agricultural Management
Growing Two Acres of Vegetables for His Mansion, a Non-Profit Organization in Deering, New Hampshire
Adviser: Andrew Conroy

Dylan Kelly
Anthropology
Using GIS to Assess the Environmental Impacts of Disc Golf Courses in Coastal New Hampshire
Adviser: A. Richard Vannozzi

Daniel Laggis
Integrated Agricultural Management
Evaluating Areas for Improvement on Laggis Brothers’ Farm in East Hardwick, Vermont
Adviser: Andrew Conroy

Paul Liversidge
Civil Technology
Determining Optimal Locations for a Solar Field in Raymond, New Hampshire Using GIS
Adviser: A. Richard Vannozzi

Tara Mullen
Civil Technology
Developing a GIS Database and Mapping of a Middle School Ropes Course to Introduce Sustainability Education Prior to High School
Adviser: A. Richard Vannozzi

Cole Parris
Integrated Agricultural Management
Utilizing GIS to Find a Suitable Location to Start a Cranberry Bog in West Tisbury, Massachusetts
Adviser: A. Richard Vannozzi

Nathan Robertson
Integrated Agricultural Management
Moving Forward: Contoocook Creamery’s Milk Plant
Adviser: Andrew Conroy

Dylan Smith
Integrated Agricultural Management
Explorations in Aquaponics
Advisers: Jonathan Ebba, Rene Gingras

Trent Urie
Integrated Agricultural Management
Are Big Bad Farms Really Bad? A Video Documentary Highlighting Existing, Sustainable Farming Practices in Northern New England
Adviser: Andrew Conroy

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

Charles & Miriam Nelson Poster Competition

Wednesday, April 22
Noon-2 p.m.
Paul College, Room G35

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

Jared Allison
Zachary Howard
Michael Kelly
Management
Green Box Homes
Adviser: John Ela

Cullen Barnes
Management
Jonathan Mantia
Cameron Walsh
Finance and Management
R.E.B.E.L. Lighting
Adviser: John Ela

Benjamin Belanger
Information Systems Management and Management
Understudy - Connecting US Schools with Qualified Substitute Teachers
Advisers: Robert Gough, Doug Henderson

Rachel Cardarelli
International Business and Economics and Management
Marion Harrington
Sarah Wiggins
Management
The Unwrapped Market
Adviser: John Ela
The Naked Arts—Creativity Exposed!

Act I

Wednesday, April 22
Noon-2 p.m.
Museum of Art, Paul Creative Arts Center

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

Rebecca Emerson-Brown
Fine Arts, Ceramics
Terra Forming: Seed and Stone
Advisers: Brian Chu, Leah Woods

Nina Kappel
English
Missives from the Farm
Advisers: Mekeel McBride, Thomas Payne

Karen Mawikere
Fine Arts, Photography
BFA Thesis
Adviser: Leah Woods
The NAKED ARTS—CREATIVITY EXPOSED, ACT 1, CONTINUED

Carson Morris
Fine Arts, Sculpture
BFA Thesis
Adviser: Leah Woods

Lyndsey Nowlan
Alexandra Spanier
Theatre
Set and Costume Designs for A Shayna Maidel, a Play by Barbara Lebow
Adviser: Szu-Feng Chen

Anne Twombly
Fine Arts, Painting
BFA Thesis
Adviser: Leah Woods

Chemical Engineering
Group Leader: Dr. Kang Wu

Rita Andary
Chemical Engineering
Fourier Analysis of Oscillating Blood Flow
Adviser: Russell Carr

Christopher Blais
Chemical Engineering
Dynamic Behavior of Membrane-Bound Capsules
Adviser: Nivedita Gupta

Duncan Cromwell
Chemical Engineering
Methylcyclohexane Dehydrogenation To Toluene Over Ir Catalyst
Adviser: Palligarnai Vasudevan

Aguedo De Los Santos (McNair Scholar)
Chemical Engineering
The Chemical Resistance of Anodic Coating for Medical & Food Processing Applications
Adviser: Dale Barkey

Alison Deyett
Shujie Hou
Chemical Engineering
Innate Immune Response to Novel Bactericidal Surface that Enhances Biointegration
Adviser: Kyung Jae Jeong

Rhiannon Jacobs
Chemical Engineering
Molecular Dynamics Simulation of M37 Lipase from Psychrophilic Photobacterium Lypoliticum in Water and Methanol
Adviser: Harish Vashisth

Kenan Mazic
Chemical Engineering
Avery Normandin
Biomedical Science
Assessing Innate Immunity in Implant Biointegration Using Surface-Treated, Microporous PDMS Scaffolds
Adviser: Kyung Jae Jeong

Sachi Nagada
Chemical Engineering
Design of a Tunable Protein Expression and Display System on Bacterial Spore Surface
Adviser: Kang Wu

Christopher Redus
Chemical Engineering
Imaging and X-Ray Spectroscopy of Aerosolized Mixtures of Montmorillonite and Dicarboxylic Acids
Adviser: Margaret Greenslade

Laura Van Beaver
Neuroscience and Behavior
Production of Decaffeinated Tea through Genetic Engineering (ISE)
Adviser: Subhash Minocha

Halie White
Chemical Engineering
Display of Laccase on Bacterial Spore Surface for Improved Stability
Adviser: Kang Wu

Pablo Yangali
Chemical Engineering
Characterization of Geobacillus Strains for Arsenic Resistance and Remediation
Adviser: Kang Wu

Interdisciplinary Science & Engineering Symposium (ISE)

Poster Presentations

Wednesday, April 22
1:30-2:00pm Awards Ceremony
2:00-4:00pm 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. The program will include a poster session, refreshments, and an awards ceremony.

Max Bilodeau
Chemistry
Synthetic Approaches to a Diiron Cluster Complex
Adviser: Samuel Pazicni

Bianca Daniela Costa
Chemical Engineering
Electrically Responsive Protein Based Soft Actuators
Adviser: Leila Deravi

Tyler Dami
Chemistry
Free Radical Skeletal Rearrangements of Arenes and Diels Alder Reactions with an Acetylene Equivalent
Adviser: Richard Johnson

Justin Dapolito
Chemistry
Phenylphenanthrene Synthesis and Phenyl Group Migration Studies
Adviser: Richard Johnson
Christopher DiBona
Chemistry
Extraction and Analysis of Ommochromes in Cephalopod Chromatophores
Adviser: Leila Deravi

Azaline Dunlap-Smith
Matthew Rauch
Chemistry
Exploration of the Synthesis of 1-Methyl-4-Silatranone: A Hyperstable Lactam and an Unprecedented Silatrane
Adviser: Arthur Greenberg

Ryan Fitzgerald
Chemistry
Synthesis of 4,5-Benzoxepin for Use in Enzymatic Studies
Adviser: Arthur Greenberg

Brittney Hutchinson
Chemistry
Chain Extension Mannich Reactions with Sulfanyl Imines
Adviser: Charles Zercher

Brittney Hutchinson
Chemistry
Effectiveness of Peer-Led Team Learning with Different Leader Training in College General Chemistry
Advisers: Christopher Bauer, Julia Chan

Peter Kimball
Chemistry
Synthesis of a New Pentacene-Based Cyclophane for Use in Organic Thin Film Transistors
Adviser: Glen Miller

Jay Nelson
Chemistry
Binding Selectivity of Molecular Imprinted Polymers
Adviser: W. Rudolf Seitz

Austin Power
Chemistry
Hydrogen Bonding within Tyrosinate-Bound Iron Complexes
Adviser: Samuel Pazicni

Barry Powers
Chemistry
Synthesis and Photocatalytic Carbon Dioxide Reduction of C-Functionalized Cyclam
Adviser: Gonghu Li

Ram Subedi (McNair Scholar)
Chemical Engineering
The Effect of Morphology on Titanium Dioxide Photocatalysis
Adviser: Gonghu Li

David Waste
Chemistry
Single-Chain Nano Particles from Sequenced Polyolefins
Adviser: Erik Berda

Civil and Environmental Engineering-Industrial
Group Leader: Dr. Tat Fu

Joel Asencio
Taylor Buchalter
Brittany Holbrook
Jonathan Proulx
Stephen Rosenberg
Megan Suffel
Civil and Environmental Engineering
Vermont Route 14 over Pekin Brook Bridge Replacement
Advisers: Raymond Cook, Jennifer Jacobs

Jacob Bailey
Thomas Hutter
Paige Libbey
Zachary Wallin
Civil and Environmental Engineering
Nashoba Valley Technical High School Track and Field Design
Adviser: Thomas Ballestero

Julen Barruetabena
Environmental Engineering
Teagan Dunfey
Connor Halloran
Daniel Welch
Christopher Welsh
Civil and Environmental Engineering
Six Flags Roller Coaster of the Future
Adviser: Erin Bell

Andrew Bingham
Kelsey Winkler
Civil and Environmental Engineering
Dylan Erickson
Rachael Kenny
Environmental Engineering
Fourhills Landfill
Adviser: Jean Benoit

Megan Burke
Kathleen Hanlon
Environmental Engineering
Elizabeth Garvey
Jaclyn Lemieux
Civil and Environmental Engineering
SWB San Pedro de Casta Chlorine Dosing System
Adviser: M. Robin Collins

Gregory Clauson
Geoffrey Glover
Ian Sleeper
Civil and Environmental Engineering
Brandon Ransom
Civil and Environmental Engineering and Computer Science
Municipal Infrastructure Asset Management
Adviser: Charles Goodspeed

James Commerford
Andrew Matthews
Benjamin Miller
Daniel Perreault
Civil and Environmental Engineering
Biotech Production Facility Water Supply and Treatment
Advisers: M. Robin Collins, Peter King

Jessica D’Entremont
Stephen Leonardo
Brandon Ransom
Civil and Environmental Engineering
Biotech Production Facility Water Supply and Treatment
Advisers: M. Robin Collins, Peter King

Michael Eno
Civil and Environmental Engineering
Olivia Jobin
Environmental Engineering
Developing Stormwater Solutions for an Island Community
Adviser: James Malley

Ryan Houle
Brendan Nallan
Timothy Noble
Kayla Santello
Civil and Environmental Engineering
Lucas Sundean
Environmental Engineering
Life Cycle Assessment of Throwback Brewery Beer
Adviser: Kevin Gardner
Tyler Renz
Priscilla Tengdin
Civil and Environmental Engineering
Measurement Methodology for Equestrian Riding Surfaces
Adviser: Jean Benoit

Civil and Environmental Engineering
Research

Group Leader: Dr. M. Robin Collins

Matthew Baker
Zachary Chabot
Matthew Dumont
Civil and Environmental Engineering
Tsunami Vertical Evacuation Structure
Adviser: Ricardo Medina

Tyler Ball
Zachary Champa
Natalia Quintero
John Reilly
Civil and Environmental Engineering
Geo Wall
Adviser: Majid Ghayoomi

Nicholas Bateman
Patrick Bogle
Nathaniel Colp
Robert Langlands
Ewen Mackinnon
Joshua Mele
Civil and Environmental Engineering
UNH Steel Bridge Team
Adviser: Charles Goodspeed

Cameron Bellisle
Eric Casey
Jeffrey Koloski
Antonio Santiago
Tyrer Shedd
Civil and Environmental Engineering
ASCE Concrete Canoe Team
Adviser: Charles Goodspeed

Jacob Blunden
Daniel DelTufo
Michael McLaughlin
Amanda St. Pierre
Civil and Environmental Engineering
Michael Moser
International Affairs and Civil and Environmental Engineering
Sensing of The Memorial Bridge
Advisers: Erin Bell, Tat Fu

Ryan Bottesini
Timothy Nash
Civil and Environmental Engineering
Ethan Ely
Environmental Engineering
Transformable Recycled Eco-Engineering Structures (TREES)
Adviser: Robert Henry

Michael Clough
Laith Qurreh
Scott Syrene
Civil and Environmental Engineering
Residential Use of Intermodal Shipping Containers
Adviser: Robert Henry

Daniel Crochetiere
Mary-Kathleen Eppig
David Tarushka
Civil and Environmental Engineering
Flood Pavement Evaluation
Adviser: Jo Daniel

Lief Friedrichs
Civil and Environmental Engineering
Analyzing Building Occupants’ Thermal Comfort from Tweets
Adviser: Tat Fu

Jill Getchell
Adrienne Hill
Civil and Environmental Engineering
Evaluation of Internal Strut Loads in Underground Retaining Structures
Adviser: Majid Ghayoomi

Mathew Head
Marlin Hueil
Michael Kotowski
Civil and Environmental Engineering
Commercial Cargo Container
Adviser: Robert Henry

Sarah Jakositz
Pia Marciano
Environmental Engineering
Life Cycle Environmental Impacts Associated with Timber Uses
Advisers: Kevin Gardner, Weiwei Mo

Travis Manning
Bimochan Poudyal
Ryan van der Heijden
Civil and Environmental Engineering
Effect of Freeze Thaw Cycles on Asphalt Strength
Adviser: Jo Daniel

Marianna Oliveira Moura
Darline Simoni Balen
Environmental Engineering
Dynamic Environmental Life Cycle Assessment of Economic Development in New Hampshire
Advisers: Kevin Gardner, Weiwei Mo

Kayla Santello
Environmental Engineering
Life Cycle Assessment (LCA) of Tourism Activities
Adviser: Weiwei Mo

Chelsey Serrano
Environmental Engineering
The Effects of Dissolved Organic Carbon on Metal Mobility in in-situ Chemical Oxidation Applications
Adviser: Kevin Gardner

Computer Science-Applications

Group Leader: Collette Matthias Powers

Stephen Arnold
Taylor Quinn
Computer Science
Walk-By Learning Application
Adviser: Christopher Bauer

Alex Carrozzi
James English
Information Technology
Arturo Hernandez-Martinez
Information Technology and Finance
ScheduleIT: Advising Scheduling Solution
Adviser: Radim Bartos

Christopher Cavanaugh
Computer Science
UNHCEMS Chemical Structure Search
Adviser: Philip Collins

Tyler Collins
Information Technology
Evan Graham
Gregory Hilston
Computer Science
Newforma - Daily Report Application
Adviser: Michael DeSouza

Matthew DeBiase
Vincenzo Fazzolari
Zachary Walker
Information Technology
Xerox Monitoring System
Adviser: Scott Kitterman
Elisha Emond  
Ryan McAvoy  
Christopher Sedgley  
Tyler Watts  
Information Technology  
Living Bridge Joint CE Project  
Advisers: Erin Bell, Tat Fu

Kellie Fleitman  
Tucker Whitehouse  
Information Technology  
WUNH Website Redesign  
Adviser: Faye Curran

Nicole Gager  
Daniel Vasta  
Computer Science  
Interactive Touch Game for the Seacoast Science Center  
Adviser: Thomas Butkiewicz

William Gravelle  
Samuel Luszcz  
Cameron Weatherby  
Computer Science  
Squad Remotely Aimed Weapons Platform (CS)  
Adviser: Philip Hatcher

Ethan Pfenninger  
Information Technology  
UNH CEMS RFID  
Adviser: Philip Collins

Dexter Richards  
Computer Science  
UNHCEMS Material Safety Data Sheet (MSDS) Auto-Downloader and Updater  
Adviser: Philip Collins

Colin Smith  
Jason Sullivan  
Computer Science  
RF Field Mapping Tool  
Adviser: Matthew Plumlee

**Computer Science-Research**  
Group Leader: Collette Matthias Powers

**Spencer Black**  
Computer Science  
Current Practices for Product Usability Testing in Web and Mobile Applications  
Adviser: Hong Jin

**James Coddington**  
**Nicholas Crombie**  
**Jake Perron**  
Information Technology  
IPv6 First Hop Security  
Adviser: Scott Kitterman

**John Costa**  
**Matthew Dlubac**  
**Andrew Scott**  
Information Technology  
Whitewater HTTP Performance  
Adviser: David Hadley

**Amy Davies**  
Computer Science  
UNH-IOL Conformance Test Suite for iSCSI Extensions for RDMA (iSER)  
Adviser: Robert Russell

**Matthew Dlubac**  
Information Technology  
Software Defined Networking in Existing Networks  
Adviser: Scott Valcourt

**Timothy Panepinto**  
**William Winslow**  
Computer Science  
Digital Television Datacasting  
Adviser: Scott Valcourt

**Maxwell Renke**  
Computer Science  
University of New Hampshire Extended Sockets Library  
Adviser: Robert Russell

**Joseph Rogers**  
**Brandon Schwarzer**  
**Nicholas Turi**  
Information Technology  
perfSONAR  
Adviser: Scott Valcourt

**Michaela Tremblay**  
Computer Science  
Throwing Exceptions for Concurrency Errors  
Advisers: Michel Charpentier, Philip Hatcher

**Earth Sciences/Environmental Science**  
Group Leader: Dr. Ruth Varner

**Tristan Amaral**  
Earth Sciences  
Predicting Snow Albedo in New Hampshire Using Three Winters of Seasonal Snow and Weather Observations by the CoCoRAHS-Albedo Network  
Advisers: Jack Dibb, Cameron Wake

**Nathan Battey**  
Biology  
**John Heavisides**  
Physics  
**Eryn Murphy**  
Marine, Estuarine and Freshwater Biology

**Eric Samuel**  
Mechanical Engineering  
Integrated Aquaculture  
Adviser: Larry Harris

**Paige Clarbeitza**  
Environmental Sciences  
Comparison of CH4 Emission and CO2 Exchange Between 2013 and 2014 in a Subarctic Peatland  
Adviser: Ruth Varner

**Megan Dalton**  
Environmental Sciences  
Atmospheric Nuclear Weapon Testing Horizons: Establishing Depth-Age Relationships in an Alaskan Ice Core  
Adviser: Cameron Wake

**Jessica DelGreco**  
Environmental Sciences  
Quantifying Anthropogenic Influence on Tropical Forests Using Charcoal  
Adviser: Michael Palace

**Lisa Demaine**  
Environmental Sciences  
Collaboration and Implementation by Citizens and Scientists  
Advisers: Malin Clyde, Alyson Eberhardt

**Michael Dougherty**  
Environmental Sciences  
Analysis of the Photodegradation and Sorption of Rhodamine WT in New Hampshire Wetlands  
Adviser: Anne Lightbody
Liam Joice-Casey  
Geology  
Assessing Early Etna Magma Processes  
Adviser: Julia Bryce

Alan Jones  
Geology  
Testing Neodymium As A Geochemical Tracer Of Clays And Ceramics In The Belize River Valley  
Adviser: Julia Bryce

Mark Kotowski  
Environmental Sciences  
Lamprey River Water Quality Analysis  
Adviser: Anne Lightbody

Apryl Perry  
Environmental Sciences  
Lake Physical and Geochemical Traits  
Impact CH4 and CO2 Concentrations  
Adviser: Ruth Varner

Laura Logozzo  
Earth Sciences  
Linking Sediment Characteristics to Methane Emission Potential in Subarctic Lakes  
Adviser: Ruth Varner

Christian May  
Environmental Sciences  
Diurnal Variations in Small Wetland Discharge in NH and MA  
Adviser: Anne Lightbody

Emma McCabe  
Geology  
Heat Stress on Livestock  
Adviser: Matthew Huber

Daniel Meeden  
Environmental Sciences  
Quantifying the Drag Force of Woody Riparian Seedlings  
Adviser: Thomas Lippmann

Elizabeth Pettitt  
Geology  
Geochemical Constraints on Melt Generation Beneath the Adriatic Plate  
Adviser: Julia Bryce

Jacob Poirier  
Environmental Sciences  
Sediment Erosion in a Tributary to Woodman Brook  
Adviser: Anne Lightbody

John Prizzi  
Earth Sciences: Oceanography  
Paleo-Monsoon  
Adviser: Rosemarie Cane

Katherine Rocci  
Earth Sciences and Environmental Sciences  
Assessing the Impact of a Bedrock Gradient on Vegetative Diversity  
Adviser: Julia Bryce

Dylan Schiff  
Environmental Sciences  
Fine-Scale Plant Species Identification in a Poor Fen and Integration of Techniques and Instrumentation in a Classroom Setting  
Advisers: Erik Froburg, Michael Palace, Ruth Varner

Anna Simpson  
Earth Sciences: Oceanography  
Seafloor Characterization in the Great Bay Estuary  
Adviser: Thomas Lippmann

Steven Troy  
Biochemistry, Molecular and Cellular Biology  
The Effects of Nanoparticles and Biogenic Polyamines on Horizontal Gene Transformation Efficiency  
Adviser: Subhash Minocha

Cody Whelan  
Geology  
New Age Constraint of La Colonia Formation (Patagonia, Argentina) Using Magnetostratigraphy  
Adviser: William Clyde

---

**Electrical & Computer Engineering**

**Group Leader: Dr. Kent Chamberlin**

Syed Ali  
Jeffrey Page  
Electrical Engineering

Eric Sheridan  
Computer Engineering  
The RC Project  
Adviser: Wayne Smith

David Arnoldy  
Computer Engineering

Michael Gingrich  
Electrical Engineering  
Campus Walking Guide Using GPS  
Adviser: Kent Chamberlin

Michael Bellomo  
Nicholas Bordeianu  
Jesse Cassin  
Kevin Conboy  
Electrical Engineering  
UNH Gymtel  
Adviser: Richard Messner

Joseph Bennett  
Kiefer Quitayen  
Computer Engineering

John Sims  
Information Technology

Max Tibbetts  
Electrical Engineering  
Internet of Things: Sleep-Monitoring System  
Adviser: Andrzeij Rucinski

Elias Berg  
Computer Science

Steven Giguere  
Adam Martiniello  
Computer Engineering

Michael Tessier  
James Youmatz  
Mechanical Engineering  
Dynamic Braille Display  
Adviser: Richard Messner

Franklin Bongiovanni  
Kehan Connors  
Daniel Newell  
Electrical Engineering  
Passive Cop-Cam  
Adviser: Michael Carter

David Bundy  
Addison Nute  
Computer Engineering  
Chaotic Communications System for the Secure Transmission of Data  
Adviser: W. Thomas Miller
<table>
<thead>
<tr>
<th>Name</th>
<th>Major</th>
<th>Project Title</th>
<th>Advisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jahanzeb Choudhry</td>
<td>Electrical Engineering</td>
<td>Smart Appliance Interface and Interconnect</td>
<td>Michael Carter</td>
</tr>
<tr>
<td>Mark Duda</td>
<td>Computer Engineering</td>
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<tr>
<td>Jonathan Gallant</td>
<td>Computer Engineering</td>
<td></td>
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<tr>
<td>Annette Conticchio</td>
<td>Electrical Engineering</td>
<td>Custom Built Laser Harp</td>
<td>Richard Messner</td>
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<tr>
<td>Matthew DiOrio</td>
<td>Computer Engineering</td>
<td></td>
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<tr>
<td>Ryan Zins</td>
<td>Electrical Engineering</td>
<td>ISS Test Apparatus Rebuild</td>
<td>Richard Messner</td>
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<tr>
<td>Robert Esposito</td>
<td>Computer Engineering</td>
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<tr>
<td>Curtis Lush</td>
<td>Electrical Engineering</td>
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<tr>
<td>Caemen Weiland</td>
<td>Computer Engineering</td>
<td></td>
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<tr>
<td>Daniel Gianduso, Jr</td>
<td>Electrical Engineering</td>
<td>Digital Electric Theremin with MIDI Output</td>
<td>Andrzej Rucinski</td>
</tr>
<tr>
<td>Noah Johnson</td>
<td>Computer Engineering</td>
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<tr>
<td>Benjamin Gibbons</td>
<td>Electrical Engineering</td>
<td>Multidirectional Ultrasonic Proximity Sensor</td>
<td>John LaCourse</td>
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<tr>
<td>Michael Joseph</td>
<td>Electrical Engineering</td>
<td>Automotive Gigabit-Ethernet Transmitter</td>
<td>Michael Carter</td>
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<td>Devin Kehler</td>
<td>Electrical Engineering</td>
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<tr>
<td>Tyler Terenzoni</td>
<td>Electrical Engineering</td>
<td>Cost Effective Bicycle Safety Camera</td>
<td>Nicholas Kirsch</td>
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<td>Robert Kelley</td>
<td>Computer Engineering</td>
<td>Brainwave Analysis &amp; Binaural Stimulation</td>
<td>Kent Chamberlin</td>
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<td>Stephen Machuzak</td>
<td>Electrical Engineering</td>
<td>EMD Spectrum Sensing Implemented on FPGA</td>
<td>Nicholas Kirsch</td>
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<tr>
<td>Timothy Mitsopoulos</td>
<td>Computer Engineering</td>
<td>MCU Control of a Novel Locomotion System</td>
<td>L. Gordon Kraft</td>
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<tr>
<td>Anthony Puzzo</td>
<td>Electrical Engineering</td>
<td>Electromagnetic Levitation</td>
<td>Wayne Smith</td>
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<tr>
<td>Robert Rogers</td>
<td>Computer Engineering</td>
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<tr>
<td>Joshua Quinn</td>
<td>Electrical Engineering</td>
<td>Power Over Ethernet Enabled Network Controlled Lighting</td>
<td>Richard Messner</td>
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<tr>
<td>Zachary Romick</td>
<td>Electrical Engineering</td>
<td>Instrumened Syringe for Persons with Diabetic Retinopathy</td>
<td>John LaCourse</td>
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<tr>
<td>Peter Svendsen</td>
<td>Computer Engineering</td>
<td>Measurement of the Backward Force from a Shotgun to Calculate Recoil</td>
<td>John LaCourse</td>
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<tr>
<td>Mechanical Engineering</td>
<td>Group Leader: Dr. Ken Baldwin</td>
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<td>Sayward Allen</td>
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<td>Jarrett Linowes</td>
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<td>Sathya Muthukkumar</td>
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<td>Zuo Xu</td>
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<td>Jianqing Ye</td>
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<tr>
<td>Gerald Rosati</td>
<td>Computer Engineering</td>
<td>Underwater Remotely Operated Vehicle (ROV)</td>
<td>May-Win Thein</td>
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<tr>
<td>Jeffrey Auger</td>
<td>Mechanical Engineering</td>
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<td>Nicholas Campia</td>
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<td>Alan Chapman</td>
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<td>Christopher Aylesworth</td>
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<td>Samuel Gaskin</td>
<td>Mechanical Engineering</td>
<td>Automated Home Brewery</td>
<td>Brad Kinsey</td>
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<td>Nathan Kowalczyk</td>
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<td>Lance Marstaller</td>
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<td>Alexander Neufeld</td>
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<td>Brett Packard</td>
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<td>Bryan Taylor</td>
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<td>Christopher Bye</td>
<td>Mechanical Engineering</td>
<td>UNH AeroCats</td>
<td>Todd Gross</td>
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<td>Sheldon Baker</td>
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<tr>
<td>Austin Trombino</td>
<td>Mechanical Engineering</td>
<td>Turbulent Axisymmetric Wake with Rotation</td>
<td>Martin Wosnik</td>
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<tr>
<td>Mechanical Engineering</td>
<td>Group Leader: Dr. Ken Baldwin</td>
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</tr>
</tbody>
</table>

2015 UNDERGRADUATE RESEARCH CONFERENCE • 15
Nathaniel Bent  
Nathaniel Brown  
Corin Craig  
Molly Curran  
Pedro DeMelo-Damasceno  
Andrew DiOrio  
Kaare Francis  
Ryan Kirby  
John Pauley  
Jeffrey Sweeney  
Mechanical Engineering  
Wave Energy Conversion Buoy  
Advisers: Kenneth Baldwin, M. Robinson Swift

Gregory Bernash  
Jacob Frost  
Michael Johnson  
Nolan Lewis  
Tyler Turcotte  
Mechanical Engineering Technology  
Christopher Billings  
Jesse Cole  
Kyle Green  
Daniel Johnson  
Andrew MacMillan  
Ethan Morris  
Nicholas Russell  
Alexander Taaffe  
Mechanical Engineering  
Mini Baja SAE  
Adviser: Barbaros Celikkol

Matthew Birkebak  
Timothy Brown  
Mechanical Engineering  
Harbor Security System  
Advisers: Shachak Pe’eri, May-Win Thein

Tamir Blum  
Sital Khatiwada  
Colin Pellerin  
Aaron Rist  
Shawn Swist  
Mechanical Engineering  
Michael Koller  
Physics  
Kyle Larrabee  
Computer Science  
Alec Crimmin  
Lucas Lopez  
Electrical Engineering  
Stabilization of a Balloon Probe for the Exploration of High Altitude Environments  
Adviser: May-Win Thein

Matthew Bortolino  
Spencer Bos  
Kevin Cawley  
Jonathan DeWolf  
Andre Ferreira  
Sean Franco  
Aaron Fucci  
Andrew Hart  
Nicholas Morgida  
William Mullin  
Cameron Quinn  
Jame Skeffington-Ward  
Brian Vernet  
Mechanical Engineering  
Matthew York  
Mechanical Engineering Technology  
Connor McGurn  
Information Technology  
UNH Precision Racing  
Adviser: Todd Gross

Ryan Cannon  
Reese Kincaid  
Douglas MacIntosh  
Alexander MacKay  
Mechanical Engineering  
Pneumatic Ski/Snowboard Press  
Adviser: Brad Kinsey

Grace Cardarelli  
Myles Riddell  
Devon Snell  
Mechanical Engineering  
Drop Camera: In Search of the Lost Whaling Fleet  
Adviser: Bradley Barr

Patrick Clapp  
Trevor Howe  
Sean Kailil  
Nicholas Pyzocha  
Mechanical Engineering  
Automatic Jigging Machine  
Adviser: Kenneth Baldwin

Emily Clemons  
Applied Mathematics  
Kiley Donohue  
Korey Joback  
Connor Larkin  
Craig Paggi  
Nicholas Sapack  
Raymond Vanacore  
Mechanical Engineering  
Jonathan Hart  
Computer Science  
Maxwell Heindl  
Samuel Reed  
Angela Zukas  
Electrical Engineering  
NASA Magnetospheric Multiscale (MMS) Mission Quadsat Generation D  
Adviser: May-Win Thein

Matthew Coleman  
Michael Cullen  
Johnathen Farrington  
Mechanical Engineering  
Fire Fighting Robot  
Adviser: Barry Fussell

Laura Damato  
Brandon Fall  
Jonathan Littlefield  
Dana Merrill  
Daniel Powell  
Daniel Valente  
Mechanical Engineering  
Jeffrey Lapointe  
Carlos Perez-Ruiz  
Michael Upchurch  
Anthony Urena  
Computer Science  
Roland Lacroix  
Electrical Engineering  
ET-NavSwarm  
Advisers: Thomas Fuller, Michael Johnson, May-Win Thein, Se Young Yoon
Andrea Dargie
Lucas Davies
Philip Goff
Justyn Sterritt
Forrest Walen
Mechanical Engineering
Benjamin Novak
Computer Science
Paul Willis
Electrical Engineering
Autonomous Surface Vehicle
Adviser: May-Win Thein

Ian Gagnon
William Hall
Thomas Kroll
Mechanical Engineering
Modeling and Experimental Validation of Offshore Wind Turbine Arrays
Advisers: Peter Bachant, Ivaylo Nedyalkov, John Turner, Martin Wosnik

Ian Gagnon
Vojtech Kubec
Mechanical Engineering
Design, Manufacture, and Performance Verification of a Bi-Axial Tensile Testing Machine for Anisotropic Materials
Adviser: Ioannis Korkolis

William Gravelle
Samuel Luszcz
Cameron Weatherby
Computer Science
Connor Monahan
Benjamin Sanborn
Mechanical Engineering
Squad Remotely Aimed Weapons Platform
Adviser: Philip Hatcher

Emily Hutchinson
Stephanie Medicke
Carolyn Przekaza
Mechanical Engineering
The Mechanics, Biomimetics and 3-D Printing of Cellular Materials
Advisers: Ioannis Korkolis, Yaning Li

Allen Ma
Mechanical Engineering
Fluid Transport Behind a Hemisphere
Adviser: Christopher White

Bryant Matthews
Benjamin Mitchell
Mechanical Engineering
Diode Pump Alkali Laser
Adviser: F. William Hersman

Ekenedilichukwu Nwokoye
Harrison Theodhosi
Mechanical Engineering
MicroTube Bending Machine
Adviser: Ioannis Korkolis

Tristan Ramey
Heather Zukas
Mechanical Engineering
Handcycle: Using Reverse Pedaling to Produce Forward Motion
Adviser: Todd Gross

Physics/Mathematics
Group Leaders: Dr. David Mattingly and Dr. Sharon McCrone

Matthew Blandin
Physics
Observation and Classification of Black Pulsating Auroral Features
Adviser: Marc Lessard

Jonathan Bower
Physics
Design Optimization of a Wide Field-of-View Plasma Spectrometer
Adviser: Eberhard Moebius

Connor Dieter-Leeds
Physics
Investigation of High Temperature Superconductivity
Adviser: Eberhard Moebius

Meghan Fisher
Chrystal Moser
Physics
Design and Fabrication of a Miniaturized Fluxgate Magnetometer for SIGMA and Other Cubesats
Adviser: Marc Lessard

Cody FitzGerald
Mathematics and Genetics
Phylogenetics and the Space of Trees
Adviser: Seth Sullivant

Justin Gilman
Physics
Improved Construction of 4-point Probe for High Temperature Super-conduction
Adviser: Eberhard Moebius

Patrick Greene
Physics
Phenomenology of a Toy Model Inspired by the Spontaneous Reduction of the Spectral Dimension of Spacetime at Small Scales in Quantum Gravity
Adviser: David Mattingly

John Heavisides
Physics
Analysis of MICA Data and Instrumentation
Adviser: Marc Lessard

Caitlyn Meditz
Physics
UNH Nuclear Physics Research
Adviser: Karl Slifer

Makenzie O’Meara
Physics
The Toric Approach to F-theory Model Building
Adviser: Per Berglund

Herbie Smith
Physics
The Q-Meter and Nuclear Magnetic Resonance
Adviser: Karl Slifer

Johnson Whippie
Physics and Kinesiology
Bringing Superconductivity into the Classroom
Adviser: Dawn Meredith

Teacher Science and Engineering
Group Leader: Dr. Stephen Hale

Mike Handwork
Shani Scarpone
Winnacunnet High School
Evolution in Action: Experimental Evolution of a Harmless Bacterium
Adviser: Vaughn Cooper
Matthew Lowell  
Noble High School  
Stress and Pi: Detecting Bridge Health with Raspberry Pi  
Advisers: Erin Bell, Tat Fu

Michele Mitnitsky  
Dover High School  
Screening Geobacillus Strains for Arsenic Resistance  
Adviser: Kang Wu

Bethany Poulin  
Pelham High School  
Methods for Measuring Elongation Values in Pattern-etched Ferrous and Nonferrous Metals Using Matlab  
Adviser: Brad Kinsey

Gregory Samuel Jr.  
Coe Brown Academy  
Molecular Dynamics Simulations of the M37 Lipase from Psychrophilic Photobacterium lipolyticum: Protein Solvation in Water and Methanol  
Adviser: Harish Vashisth

Rebecca Steeves  
Lin-Wood High School  
Comparing Conductivity Levels along East and Main Branches of the Pemigewasset River  
Adviser: Vaughn Cooper, Mark Green

Krista Cleary  
University of New Hampshire  
Stephen Griffin  
Dakota Heyman  
Russell Sweet  
Computer Information Systems  
Capstone Project: Data Group  
Adviser: Michael Jonas

Brenden Collins  
University of New Hampshire  
Tyler McClanaghan  
Arias Talari  
Computer Information Systems  
Windows OS  
Adviser: Earl Labatt Jr

Brenden Collins  
University of New Hampshire  
Arias Talari  
Computer Information Systems  
Event Participant Reporting  
Adviser: Mihaela Sabin

Seth Costigan  
University of New Hampshire  
Electrical Engineering Technology  
Faruk Durakovic  
Joshua Young  
Computer Science  
Russell Sweet  
Computer Information Systems  
Place-Based Planning  
Adviser: Mihaela Sabin

Jonathan Dyllyn  
University of New Hampshire  
Business  
Christopher Nobrega  
Meagan Wolf  
Computer Information Systems  
Lake Organism Identification  
Adviser: Mihaela Sabin

Maryjean Emerson  
University of New Hampshire  
Computer Information Systems  
Rachel Roblee  
Hannah Yudkin  
Business  
Lake Water Quality Monitoring  
Adviser: Mihaela Sabin

Justin Gauthier  
University of New Hampshire  
Frederick Lochner  
Greta Milingyte  
Computer Information Systems  
Delving into the AIX Operating System  
Adviser: Earl Labatt Jr

UNH Manchester  
URC Technology Day  
Computing Technology  
Poster Presentations  
Wednesday, April 22  
2-5 p.m.  
Pandora Mill  
Manchester  

Savarna Ahmad  
Peter Ferro  
Ryan O’Neal  
Computer Information Systems  
Macintosh Operating System  
Adviser: Earl Labatt Jr

Nathaniel Biddle  
Kenneth Drews  
Refik Karic  
Kayla Mackiewicz  
Computer Information Systems  
Capstone Project: Tools Group  
Adviser: Michael Jonas

Matthew Heyner  
Zachery Boynton  
Garrett Bryant  
Trevor Downs  
Samuel Sweet  
Zebadiah Wood  
Computer Information Systems  
Linux and You: An Introduction  
Adviser: Michael Jonas

Zachery Boynton  
Electrical Engineering Technology  
Tyler McClanaghan  
Computer Information Systems  
Cyanobacteria Bloom Reporting  
Adviser: Mihaela Sabin

Melissa Bruno  
Adam Cheney  
Mohamed Fadalla  
Kyle Poirier  
Christopher Teahan  
Computer Information Systems  
Capstone Project: Systems Group  
Adviser: Michael Jonas

Melissa Bruno  
Computer Information Systems  
Compliance with Information Security Standards  
Adviser: Karla Vogel

Christopher Bye  
Forrest Surprenant  
Electrical Engineering Technology  
Kevin Soucy  
Computer Information Systems  
Invasive Species Mapping  
Adviser: Mihaela Sabin
UNH Manchester Undergraduate Research Conference

Poster Presentations

Wednesday, April 22
3:30-6 p.m.
University Center
Manchester

The UNHM Poster Presentations showcase students' independent research and internship projects, service learning activities and civic engagement projects in the learning lab of the city of Manchester.

Jessica Allanach
Communication

Kelsey Sanborn
Communication and Psychology

Needs Assessment for YWCA: Financial Literacy for Recent College Graduates
Adviser: Alison Paglia

Kyle Bassler
History

Crime in Antebellum Manchester
Adviser: Robert Macieski

Jessalyn Benson
History and Environmental Conservation Studies

Manchester and the Merrimack
Adviser: John Cerullo

Lizabth Bryant
Biological Sciences

Clostridium difficile
Adviser: Stephen Pugh

David Ciampa
History

Amoskeag: Portrait of the Emergence of Corporate Power Structure
Adviser: Robert Macieski

Mason Cross
Biological Sciences

Cardiac Catheterization
Adviser: Stephen Pugh

Evan DaSilva
Biochemistry, Molecular and Cellular Biology

Randi Foxall
Undeclared

Ryane Staples
Biological Sciences

Measuring the Gene Expression of a Siderophore Biosynthetase in a Low Siderophore Producer Vibrio fischeri Strain
Adviser: Cheryl Whistler

Morgan Descoteaux
Biological Sciences

Patient Care in a Healthcare Clinic
Adviser: Stephen Pugh

Victoria DiPippo
Humanities

Decadence and the Theory of Degeneration in Fin-de-Siècle France
Adviser: John Cerullo

Taryn Harpool
Biological Sciences

The Science of Sales
Adviser: Stephen Pugh

Courtney Holdsworth
Biological Sciences

Water Testing Lab Experience at Manchester Water Works
Adviser: Stephen Pugh

Amanda Johnson
History

Mill Girls
Adviser: Robert Macieski

Amelia Keane
Biological Sciences

Soka Education: A Foundation in Humanities
Adviser: Stephen Pugh

Tori Kelley
Psychology

Sierra Soucy
Communication Arts

Needs Assessment for YWCA: Marketing Strategies
Adviser: Alison Paglia
Alexander Larochelle  
Biological Sciences  
*The Structure and Diversity of Zooplankton in Lake Massabesic*  
Adviser: Stephen Pugh  

Sean Lavelle  
History  
*Political Dogma of Antebellum Manchester*  
Adviser: Robert Macieski  

Torrie Lemon  
Biological Sciences  
*Working as an LNA for Residents with Alzheimer’s and Dementia*  
Adviser: Stephen Pugh  

Jason Lindner  
Biological Sciences  
*The Role of a Hospital Phlebotomist*  
Adviser: Stephen Pugh  

Joman Mahmod  
Biological Sciences  
*A Pharmacist in Jordan vs. A Pharmacist in the US*  
Adviser: Patricia Halpin  

Elizabeth McLaughlin  
Biological Sciences  
*Strokes: Signs, Symptoms, and Treatment*  
Adviser: Patricia Halpin  

Mary Nalasco  
Biological Sciences  
*Field Paleontology in Bighorn Basin, Wyoming*  
Adviser: Stephen Pugh  

Michael Neveu  
Biological Sciences  
*Introduction to Dental Implant Restoration*  
Adviser: Stephen Pugh  

Alyssa Paquin  
Psychology  
*Delayed Effects of mTBI on Executive Functioning*  
Adviser: Daniel Seichepine  

Jesse Pinard  
Biological Sciences  
*An Introduction to Molecular Genetic Techniques for the Study of Vibrio parahaemolyticus*  
Advisers: Patricia Halpin, Cheryl Whistler  

Bruce Rheume  
Biological Sciences  
*Genome Sequencing of the Deep-Sea Bacterium idiomarina abyssalis*  
Adviser: Kyle Mac Lea  

Michael Rocheleau  
Biological Sciences  
*Laboratory Technology and Preparation*  
Adviser: Patricia Halpin  

Carolyn Silva  
Alexandra Topham  
Psychology  
*Needs Assessment for the YWCA: Work-Life Balance of Recent College Graduates*  
Adviser: Alison Paglia  

Lauren Simmons  
Biological Sciences  
*SEE Science Center Internship*  
Adviser: Stephen Pugh  

Cori Steck  
Biological Sciences  
*LNA: Home Healthcare*  
Adviser: Stephen Pugh  

Taran Thapa  
Biological Sciences  
*A Day at the Family Health Center-Concord Hospital*  
Adviser: Stephen Pugh  

Chelsie Veilleux  
English and History  
*The Pandora Mill - from Textiles to Education*  
Adviser: Robert Macieski  

Scott Webster  
Biological Sciences  
*Nuclear Medicine: The PET Scan*  
Adviser: Stephen Pugh  

Phyllicia Wisti  
Biological Sciences  
*Determining Peromyscus Mice Species Distribution Using Polymerase Chain Reaction and Gel Electrophoresis*  
Advisers: Kyle MacLea, Stephen Pugh
MUB, Room 334, 12:15-1:15 p.m.

Panel I.A: Piracy, and Religious and Ethnic Factors in History

Moderator: Cynthia Van Zandt

Benjamin Bertrand
History
*Renegades: A Tale of Conversion and Piracy in the 17th Century*
Adviser: Cynthia Van Zandt

Aaron Cooper
History
*A Trade to 'Dye' for: British Pirates and Loggers in the Yucatan During the Age of Exploration*
Adviser: Cynthia Van Zandt

William Dykes
History
*Analyzing the Successes and Failures of European Pirates and Settlers at Madagascar*
Adviser: Cynthia Van Zandt

MUB, Room 334, 1:15-2 p.m.

Panel I.B.: Religious and Ethnic Factors in History

Moderator: Cynthia Van Zandt

Benjamin Bertrand
History
*Examining Depictions of Muslims in the Middle Ages*
Adviser: David Bachrach

Megan Liu
History
*The Jewish Communities of al-Andalus*
Adviser: Yan Lu

MUB, Room 336, 12:15-2 p.m.

Panel II: Murder, Massacre, Conspiracy, Epidemics, and Gigantomania: Interdisciplinary Approaches

Moderators: Cathy Frierson and Lucy Salyer

Steven Cowley
History
*Mapping the Regicides: Using Geographic Information Systems (GIS) to Understand the Manhunt for the Killers of Charles I in 17th-Century New England*
Adviser: Cynthia Van Zandt

Kelsey Diemand
History
*The Trials and Tribulations on King Street: John Adams and the Boston Massacre Trials*
Adviser: Eliga Gould

Lisa Harning
History
*Comparing and Contrasting Social, Political, and Medical Reactions of 19th-Century Cholera Epidemics in London and New York City*
Adviser: Nicoletta Gullace

Joseph Juknievich
History
*Seeing Red: An Examination of the Palmer Raids in New Hampshire and Massachusetts, 1919-1920*
Adviser: Lucy Salyer

Sean Theoel (McNair Scholar)
History and Russian
*The Myth of Socialist Industrialization: The Quest to Conquer Time and Space at Magnitostroi*
Advisers: Cathy Frierson, Ronald LeBlanc

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History Department Undergraduate Presentations

Thursday, April 23
12:30-2 p.m.
Memorial Union Building
Rooms 334, 336, and 340

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 Presentations provide History students with the opportunity to share their work with fellow students, professors, and families.
THURSDAY 4/23

MUB, Room 338, 12:15-2 p.m.

Panel III: Myths and Ideals in Revolution

Moderator: Janet Polasky

Peter Bacho
History
Thomas Paine
Adviser: Janet Polasky

Matthew Dobart
History
Napoleon Bonaparte, the Hero of the French Revolution
Adviser: Janet Polasky

Christina Doherty
History
First in the Hearts of his Countrymen: American Myth and George Washington
Adviser: Janet Polasky

Tyler MacDonald
History
All Men Are Created Equal: Jefferson's Policies on Slavery and Natives
Adviser: Janet Polasky

Erik Van Den Berghe
History and Political Science
The Part Catholicism Played in Belgium’s Independence of 1830
Adviser: Janet Polasky

The Naked Arts—Creativity Exposed!

Act II

Thursday, April 23
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.

Matthew Blum
Theatre: Dance
My Resolution
Adviser: Gay Nardone

Dominic Ryder
Music Education
Performance and Analysis of Iannis Xenakis’s Rebonds B
Adviser: Ryan Vigil

Olivia Sowell
Theatre
Hitting a Wall: An Artist’s Fear of Failure
Adviser: David Kaye

Andrew Upton
Fine Arts, Photography
BFA Thesis
Adviser: Leah Woods

Parents Association Undergraduate Research Symposium

Welcome Breakfast

Friday, April 24
9-9:30 a.m.
Memorial Union Building, Granite State Room

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

Parents Association Undergraduate Research Symposium

Poster Presentations, Session A

Friday, April 24
9:30-10:40 a.m.
Memorial Union Building, Granite State Room

The Parents Association Undergraduate Research Symposium showcases students from all disciplines. Students present their faculty-mentored projects in either of two interactive poster sessions, or in one of the three oral presentation sessions. University-wide participants come from a variety of disciplines.
Timothy Amoroso
Neuroscience and Behavior
Tina Cannon
Ashley Desrochers
Angela Neal
Psychology
Chloe Flanagan
Psychology and Women's Studies
Brandon Marshall
Neuroscience and Behavior
He Said, She Said: Examining Couple Conflict in Romantic Relationships
Adviser: Katie Edwards
Susana Arciniegas
Jillian Aslin
Leah Burke
Justice Studies and Psychology
The Role of Demographics, Popularity, and Peer Legitimacy on Bullying Behavior
Adviser: Ellen Cohn
Jordan Badger
Nutrition
Mathew Biondolillo
Psychology
Does Stage of Change Mediate the Impact of a Motivator to Increase Activity Levels Among College Students?
Advisers: Summer Cook, Jesse Morrell, David Pillemer
Jacob Bull
Psychology
Siri Cope
Justice Studies and Psychology
Ending Stigma through Education: A Mental Health Curriculum
Adviser: Joan Glutting
Laura Damato
Brandon Fall
Jonathan Littlefield
Dana Merrill
Daniel Powell
Daniel Valente
Mechanical Engineering
Roland Lacroix
Electrical Engineering
Jeffrey Lapointe
Carlos Perez-Ruiz
Michael Upchurch
Anthony Urena
Computer Science
ET-NavSwarm
Advisers: Thomas Fuller, Michael Johnson, May-Win Thein, Se Young Yoon
Tien Dang (McNair Scholar)
Biomedical Science
Joseph Miseivitch
Animal Science
Characterizing the Angiogenic Properties of Brain Cancer Cells Using the Glioma U-373 Cell Line
Adviser: Paul Tsang
Lauren DeSotto
Psychology
Valerie Hall
Psychology
Who's Intervening?: A Study of Variables Influencing Positive Bystander Intervention
Adviser: Katie Edwards
Jennifer Dickson
Biomedical Science
The MiniON: A Miniaturized DNA/RNA Sequencer
Adviser: Matthew Macmanes
Andraya Ehrlich
Biology
Cameron Graaskamp
Biochemistry, Molecular and Cellular Biology
Investigation of a Fas Decoy Receptor in the Bovine Corpus Luteum
Adviser: David Townson
Keelan Forey
Health Management and Policy
Attitudes, Behaviors, and Beliefs of At-Risk Men and Women Regarding the Human Papillomavirus and Its Vaccine
Adviser: James Lewis
Nihco Gallo
Mechanical Engineering
Subtlety, Sophistication, and the Contemplation of Proportion
Adviser: Leah Woods
Laura Galvin
Kinesiology
Walking Speed and Quality of Life in Older Adults at Risk for Mobility Limitations
Adviser: Summer Cook
Sarah Garstka
Nutrition
Photovoice: Perceptions of Somersworth, NH Youth on Safety, Health, and Overall Well-Being in Their Local Community
Adviser: Semra Aytur
Tricia Gunther
Wildlife and Conservation Biology
The Relationship between Kinship and Physical Proximity in Captive Primates
Adviser: Leslie Curren
Stephanie Harding
Health Management and Policy
Differences in Patient Satisfaction between Critical Access and Prospective Payment System Hospitals in Northern New England
Adviser: Leslie MacLeod
Olivia Hastings
Communication Sciences and Disorders
Stereotypes and Stigma of Non-Native Accent: Character and Cultural Portrayals in Children’s Film
Adviser: Jeanne O’Sullivan
Crystal Hermawan  
Biomedical Science  
O-GlcNAcylation Alters Keratin 8/18 Architecture of HPV-16 Infected Cervical Cancer (SiHa) Cells  
Adviser: David Townson

Nicole Jaskiewicz  
Biochemistry, Molecular and Cellular Biology  
In Vitro Effects of O-GlcNAcylation on Keratin 8/18 Filaments in Cervical Cancer Cells  
Adviser: David Townson

Stephanie Parisi  
Biomedical Science  
In Vitro Effects of O-GlcNAcylation on Keratin 8/18 Filaments in Cervical Cancer Cells  
Adviser: David Townson

Jennifer Lange  
Occupational Therapy  
Promoting Social Interaction Skills to Influence Employment for Older Youth with Autism Spectrum Disorders  
Adviser: Lou Ann Griswold

Elsa Lindgren  
Neuroscience and Behavior  
Investigating the Relationship between Dementia and Other Health Factors Using the St. Louis University Mental Status Exam and Primary-Care Health Measures  
Advisers: Robert Drugan, Rebecca Warner

Timothy Marquis  
Biomedical Science  
A Proto-Pluritropic Cell Type and Its Expression of Novel Glycoprotein Hormones in the Pituitary of the Basal Vertebrate, the Sea Lamprey  
Adviser: Stacia Sower

Keshav Nepal (McNair Scholar)  
Biomedical Science  
The Influence of OmniGen AF on Immune Cell Accumulation, Ovulation Rate and Fertility in the Female Rat  
Adviser: David Townson

Amy Parker  
Nutrition  
Early Sleep Midpoints Are Associated with Increased Fruit, Water, and Fiber Intakes  
Adviser: David Townson

and Decreased Discretionary Calories in a Young Adult Cohort  
Adviser: Jesse Morrell

Taylor Patterson  
Geography  
Mapping Campus Monuments and Memorials: Evaluating Place and Space  
Adviser: Mary Stampone

Shayna Purdy  
Zoology  

Nicole Sharpe  
Biology  
Alteration of Flight Initiation Distance in House Sparrows (Passer domesticus) in Response to Potential Predators and Environmental Factors  
Adviser: David Townson

Jaclyn Querido  
Nutrition  
How Does Inaccurate Perception of Weight Compared to Actual BMI Status Affect the Diet Score of College Students?  
Adviser: Jesse Morrell

Jessica Salley  
Communication Sciences and Disorders  
Academic, Athletic, and Social Effects of Concussions  
Adviser: Bryan Ness

Allison Scagel  
Wildlife and Conservation Biology  
Does Being Alone Induce Stress in Domestic Dogs (Canis lupus familiaris)?  
Adviser: Leslie Curren

Laura Van Beaver  
Neuroscience and Behavior  
Production of Decaffeinated Tea through Genetic Engineering  
Adviser: Subhash Minocha

Alanna Young  
Occupational Therapy  
Friendships for Older Youth with Autism Spectrum Disorder  
Adviser: Lou Ann Griswold

MUB, Granite State Room  
Advanced Technical Writing  
Adviser: Christine O’Keefe

Cole Caviston  
Political Science  
Trends in Technical Writing (Journalism and Political Science)

Robert Chase  
Political Science  
Technical Writing in Washington

Jennifer Coneeny  
English  
Anything to Do with Technical Writing

Sara Cormier  
English  
Technical Writing in the Publishing World

Peter Klouda  
English  
Professional and Technical Writing in Editing  
Adviser: Petar Ramadanovic

Sophie Mushell  
English  
Technical Writing: English Major

Madalyn Northcutt  
English  
Trends in Insurance Field

Amelia Ordway  
English  
Trends in Technical Writing

Melanie Platt  
Linguistics  
Dialect Change in Southern NH

Marissa Ramsdell  
English  
Professional and Technical Writing in Equine Management

Molly Roman  
English  
Technical Writing in Sales and Marketing
Parents Association Undergraduate Research Symposium

Oral Presentations, Session A

Friday, April 24
9:30-10:40 a.m.
Memorial Union Building

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

MUB, Room 207

Classics and Italian Studies: Identity and Status in Ancient Greece, Italy and the Italian Diaspora

Moderator: Amy Boylan

Kaelina Lombardo
Genetics
Sacco and Vanzetti: An Exploration of the Incident That Changed Their Lives as Presented in the Media
Adviser: Amy Boylan

Madison Pierce
English Teaching
Eugenics and the Italian American Experience
Adviser: Amy Boylan

Emily Schostack
Art History and Classics
Vergil and the Emperor in Pompeii
Advisers: Harriet Fertik, Eleanor Hight, Robert Smith

Jack Vachon
Classics and History
Putting Greek Myths on the Map: Homer’s Catalog of Ships
Adviser: Robert Smith

MUB, Room 233

Comm-entary 2015: A Selection of Research Published in the Student Communication Journal

Moderator: Kevin Healey

Gennifer Davidson
Communication
How to Live
Adviser: Michael Jackson

Lauren Nawfel
Communication
Beyond Digital Dualism: The Conceptual Fallacy of the Online/Offline Dichotomy
Adviser: Michael Soha

Emily Sorey-Backus
Communication
What Is Expected of a Man
Adviser: Jennifer Borda

Jessica Wojenski
Communication and Women's Studies
Re-Defining Political Activism in Post-Modernity
Adviser: Michael Soha

MUB, Room 321

Effects of Aerobic and Resistance Exercise Training

Moderator: Robert Kertzer

Rebecca Daniels
Kinesiology
Effects of Resistance Training on Power and Function in Older Adults
Adviser: Summer Cook

Nicole DeMidio
Kinesiology
Myocardial Perfusion following High-Intensity Interval and Aerobic Exercise in Males
Adviser: Tim Quinn

Ashley Meyer
Kinesiology
Sex Differences in Regional Distribution of Muscle, Intermuscular and Subcutaneous Adipose Tissue in Older Adults
Adviser: Summer Cook

Cory Snyder
Kinesiology
Does High-Intensity Intermittent Exercise Volume Impact Arterial Compliance in High-Intensity Trained Athletes?
Adviser: Tim Quinn

Elissa Solomon
Kinesiology
Assessment of Delayed-Onset Muscle Soreness in College-aged Females following a Bout of Blood-Flow-Restricted Exercise
Adviser: Summer Cook

MUB, Room 237

Exploring Anthropology: Session I

Moderator: Meghan Howey

Jennifer Allen
Biomedical Science and English
How Patients Think: An Assessment of Clinician Competence
Adviser: Natalie Porter

Leslie Duff
Anthropology
Examining Distributions of Turtle Bone and Obsidian Associated with Circular Shrine Structures
Adviser: Eleanor Harrison-Buck

Jennie Marinucci
Biomedical Science
Cross-Cultural Gerontology: Exploring Successful Aging from a Health Professional View
Adviser: Natalie Porter

Madeline Moison
Anthropology
Anthropology and The University
Adviser: Sara Withers

Benjamin Rideout
Anthropology
Cultural Contact in the Ancient Near East: The Effects of the Egyptian Empire on its Neighbors
Adviser: Meghan Howey
MUB, Theatre I

Exploring Spanish: Session I

Moderator: John Chaston
Judge: Holly Cashman

Marie Ainaire
Spanish
The Communicative Effects of Indirect Object Pronoun and Preposition Placement in Spanish
Adviser: John Chaston

Kevin Dwyer
International Affairs and Spanish
Getting the Most Out of a Conversation: Learning New Vocabulary
Adviser: Lina Lee

Spencer LeFlem
Spanish
Expressing Obligations, Necessity, and Convenience in Spanish: Uses of Subjunctive, Indicative, and Infinitive
Adviser: John Chaston

John O’Mahony
Spanish
Translating Zafrón: The Nuances of Exploring the Cemetery of Forgotten Books in English
Adviser: John Chaston

Jaime Reagan
Spanish
Word Order and Meaning in Spanish Reverse Constructions
Adviser: John Chaston

MUB, Room 330

International Affairs: Challenges in Sustainable Development: Poverty, Inequality, and the Environment

Adviser: Molly Wallace
Moderator: Jennifer Purrenhage

Olivia Loos
International Affairs and Economics
Chilean Microenterprise Development: Threats, Opportunities, and Successes

Aseebulla Niazi
International Affairs and International Business and Economics
Building a Mega City, Cheating Migrant Workers: The Role of Migrant Workers in the Development of UAE

Leonidas Ocampo
International Affairs and Political Science
The Smog: Air Quality and Pollution in Beijing

Elizabeth Resnick
International Affairs and Political Science
Growing Inequality in Public Education: Maintaining the Status Quo in Argentina
Adviser: Molly Wallace

Hannah Whalen
International Affairs and Environmental Conservation Studies
Assessing the Effectiveness of Ecotourism in Costa Rica

Molly Wogan
International Affairs and Spanish
A Societal Greyscale: Social Stratification in the Dominican Republic

MUB, Room 332

International Affairs: Dimensions of Culture: Media, Food, Language, Business

Adviser: Molly Wallace
Moderator: Alex Lindsay

Morgan Karanasios
International Affairs and Political Science
French Visual Culture in Its Magazines

Emily Loud
International Affairs and Linguistics
France’s Reaction to English Globalization

Mackenzie Mozitis
International Affairs and Management
The Impact of Globalization on Italian Food Culture

Chad Perkins
International Affairs and German
Global Stereotypes and the Media’s Influence: The Case of American Stereotypes in Germany

Alexandra Roy
International Affairs and Management
Culture in the Italian Workforce

MUB, Room 336

International Affairs: Global Health Issues

Adviser: Molly Wallace
Moderator: Jerry Marx

Ashley Cochran
International Affairs and Spanish
The Modern Pursuit for the Fountain of Youth in Costa Rica

Ayi D’Almeida
International Affairs and Psychology
Why the U.S. Youth Obesity Rate Has Been Increasing: It’s Not as Simple as You Think

Christian Seasholtz
International Affairs and Biomedical Science
The Doctor Will See Your Social Security Card Now: Spanish Healthcare in the Wake of Recession

Catherine Wanjiru
International Affairs and Tourism Planning and Development
Women Living with HIV/AIDS: Comparing Communities in Kenya and the U.S.

MUB, Room 334

International Affairs: National Identities and Economies in the EU

Adviser: Molly Wallace
Moderator: Gregg Orifici

Christine DiGirolamo
International Affairs and Information Systems Management
Divided Spain: Independence Movements in the Basque Country and Catalonia
Allison Enck  
International Affairs and Environmental Conservation Studies  
The Role of the EU and Globalization in the Catalan Independence Movement

Gretchen Klempa  
International Affairs and Political Science  
France's Objection to Turkey's Accession to the EU

Cameron Palczynski  
International Affairs and Linguistics  
Public Perceptions of the Rise of German Nationalism

Catherine Pinone  
International Affairs and Spanish  
The Impact of the Euro on the Spanish Economy

MUB, Room 340

Multidisciplinary Session I: Exploring the Outdoor Experience  
Moderator: Brent Bell

Bradley Anderson  
Nutrition  
Dietary Characteristics of Long-Distance Hikers: A Cross-Sectional Study of the Nutritional Needs of Long-Distance Hikers on the Appalachian Trail  
Adviser: Jesse Morrell

Christien Clark  
Environmental Conservation Studies  
My Philosophy of Education  
Adviser: Brent Bell

Anne Howard  
Sustainable Agriculture and Food Systems and Humanities  
Philosophy of Outdoor Education: Mentorship and Authenticity  
Adviser: Brent Bell

Sophie Rathjen  
Kinesiology and Sustainable Agriculture and Food Systems  
Critical Thinking: A Perspective Beyond Your Own  
Adviser: Brent Bell

MUB, Strafford Room

Multidisciplinary Session II: Examining Memory, Persuasion, and Parenting  
Moderator: Ellen Cohn

Victoria Barnaskas  
Sociology  
The Effects of Helicopter Parenting on College Students  
Adviser: Catherine Moran

Melissa Dongo (McNair Scholar)  
Psychology  
Evaluating Episodic Memory in Children Using a Science-Learning Event  
Adviser: Michelle Leightman

David Wigemark  
Neuroscience and Behavior  
The Implications of Brain Oscillations on the Relationship between Source Memory and MAO-A Gene Variations  
Adviser: Robert Ross

Shannon Zimmerman  
Psychology  
Power of Persuasion: How Group Dynamics and Behaviors Influence Juror Decisions  
Adviser: Ellen Cohn

MUB, Room 338

Optimizing Techniques in the Health Sciences  
Moderator: Ben Towne

Ashley Bartlett  
Athletic Training  
Max Hendrickx  
Athletic Training and Kinesiology  
Ashley Saracy  
Overbuilt-Style Football Helmet Face-masks and Their Perceived Influence on Player Behavior  
Advisers: Johna Register-Mihalik, Erik Swartz

Anna Brilliant  
Kinesiology  
Test-Retest Reliability of Isometric Knee Extension Strength Asymmetry  
Adviser: Dain LaRoche

Julia Carney  
Brett Sexton  
Athletic Training  
Prevention of Head Impacts in Football Using the HuTTTM Technique: Season One  
Adviser: Erik Swartz

Sarah Flaherty  
Kinesiology  
Using a Peer-Guided Model to Enhance Participation in an Exercise Program for Young Adults with Intellectual Disabilities  
Adviser: Michelle Grenier

Kelsey Zukowski  
Occupational Therapy  
Criterion-Related Validity of the Children's Occupational Performance Questionnaire  
Adviser: Shelley Mulligan

MUB, Room 203

Political Science: Chinese War and Peace  
Adviser: Lawrence Reardon  
Moderator: Lionel Ingram

Jacob Bacon  
Political Science  
China's Expanding Military and Maritime Disputes

James Caviston  
Political Science  
The Chinese Dragon Goes to Sea

Carson Chapman  
Political Science  
China’s Development of a Blue Water Navy

Malone Soeun  
Political Science  
Tensions Rising in the Asia-Pacific

Connor White  
Political Science  
The Fall of Sino-US Relations and the Rise of the PLAN

2015 UNDERGRADUATE RESEARCH CONFERENCE • 27
MUB, Room 304

Political Science: Making Money by Hook or by Crook
Adviser: Lawrence Reardon
Moderator: Christine Turner

Sean Hogan
Economics
State, Industry, and Competitive Advantage

Joseph Skerry
Political Science
ISIS/ISIL

Joseph Sweeney
Political Science
Flexing Resources: Manipulation of Natural Resource Market Supplies

Travis Szczepaniak
Political Science
The Standard Oil Monopoly: Changing the Future of Big Business

MUB, Room 302

Political Science: Rewriting History, Chinese-Style
Adviser: Lawrence Reardon
Moderator: Chen Haojun

Jenna Calcavecchia
International Affairs and German
China U: Confucius Institutes and the Impact on Higher Education

Andrew Collyer
Political Science
Chinese Military Modernization in a Changing World

Martin McCormick
Political Science
China’s Past Haunting Their Present

Tanner O’Brien
Political Science
Censoring the Chinese Internet

Parents Association Undergraduate Research Symposium
Poster Presentations, Session B

Friday, April 24
10:50 a.m.-Noon
Memorial Union Building, Granite State Room

The Parents Association Undergraduate Research Symposium showcases students from all disciplines. Students present their faculty-mentored projects in either of two interactive poster sessions, or in one of the three oral presentation sessions. University-wide participants come from a variety of disciplines.
Kerry Cottle
Occupational Therapy
Exploring the Adaptive Process of Artists with Acquired Disability
Adviser: Kerryellen Vroman

Alana Davidson
Nutrition
Food Insecurity Among Undergraduate Students
Adviser: Jesse Morrell

Lisa Demaine
Environmental Sciences
Collaboration and Implementation by Citizens and Scientists
Advisers: Malin Clyde, Alyson Eberhardt

Danielle Desmarais
Biomedical Science
Ebola Preparedness in the United States
Adviser: Thomas Pistole

Sarah DiIanni
Nicholas Duggan
Hanne Hansen
Jaclyn Johnston
Amanda LeBel
Patricia Levesque
Megan Lusignan
Hayley Robertson
Ahlia Slone

Neuroscience and Behavior
Adviser: William Stine

Janice Disla (McNair Scholar)
Psychology
Overparenting: A Cross-Cultural Analysis
Adviser: David Pillemer

Zachary Doucette
Health Management and Policy
Student Health Benefits Plan Marketing Research
Adviser: James Lewis

Joshua Evans
Biomedical Science
The Effects of Polybrominated Diphenyl Ether (PBDE) Dose on Hepatic Phosphoenolpyruvate Carboxykinase (PEPCK) Enzyme Activity in Rats
Adviser: Gale Carey

Lisa Flaman
Melissa Ryan
Genetics

Nicole Petersen
Megan Thompson
Biochemistry, Molecular and Cellular Biology
Identification and Characterization of Genes Involved in Root Growth Under Salt Stress in Arabidopsis
Adviser: Estelle Hrabak

Chloe Flanagan
Psychology and Women's Studies

Ellen Haynes
Angela Neal
Psychology

Kayla Putnam
Social Work
Role-Play: Hyper-Gender Ideology and Women's Dating Violence Perpetration and Victimization
Adviser: Katie Edwards

Emily Fontaine
Linguistics

Emily Vaughn
Nursing
How Media Polarizes the Genders
Adviser: Courtney Marshall

Holly Fosher
Recreation Management and Policy
Exploring New Hampshire Recreation Directors' Perceptions of Youth Sports Leadership and Coach Development
Adviser: Robert Barcelona

Akaylah Glidden
Ecogastronomy and Nutrition

Mary Hammar
Brenna Robinson
Emily Villeneuve
Nutrition
Does the UNH Campus Offer a Healthy Eating Environment?
Adviser: Jesse Morrell

Karlyn Greene
Psychology and Political Science
Action Oriented vs. Expressive Goals in Disclosure of Victimization
Adviser: Victoria Banyard

Lauren Guetling
Ashley MacPherson
Katherine Seavey
Psychology
Depression and Social Support in LGBTQ+ Victims of Intimate Partner Violence
Advisers: Katie Edwards, Kara Anne Rodenhizer

Tricia Gunther
Wildlife and Conservation Biology

Thea Kristensen
Katrina Papanastassiou
Ecology, Evolution and Behavior
Evaluating Genetic Diversity Between Populations of New England Cottontail (Sylvilagus transitionalis) and Eastern Cottontail (Sylvilagus floridanus)
Adviser: Adrienne Kovach

Lindsay Havens
Kaelina Lombardo
Genetics
Timeline of Phenotypic Development in the Asian Multicolored Lady Beetle (Harmonia axyridis)
Adviser: Matthew Macmanes

Suzanne Hogan
Nutrition
Effect of Whole Grain Consumption on Markers of Metabolic Syndrome
Advisers: Joanne Curran-Celentano, Jesse Morrell

Emily Vaughn
Nursing
How Media Polarizes the Genders
Adviser: Courtney Marshall

Holly Fosher
Recreation Management and Policy
Exploring New Hampshire Recreation Directors’ Perceptions of Youth Sports Leadership and Coach Development
Adviser: Robert Barcelona
FRIDAY 4/24

Garrett Klokman
Biochemistry, Molecular and Cellular Biology
Production of Estradiol and Matrix Metalloproteinases by an Immortalized Human Granulosa Cell Line
Advisers: Paul Tsang

Molly Lawrence-Webb
Wildlife and Conservation Biology
Effects of Increased Soil Moisture on Aggressive Behavior in Pavement Ants
Adviser: Leslie Curren

Jessica Manuel
Animal Science
Human Identification Among Nonhuman Primates
Adviser: Leslie Curren

Kenan Mazic
Chemical Engineering
Avery Normandin
Biomedical Science
Assessing Innate Immunity in Implant Biointegration Using Surface-Treated, Microporous PDMS Scaffolds
Adviser: Kyung Jae Jeong

Molly Ohman
Occupational Therapy
Young Primary School Children's Perceptions of Stigma Associated with Learning Disabilities
Advisers: Susan Merrill

Sara Page
Erika Rudiger
Caroline Tarbell
Jullian Turner
Kinesiology
NCAA Division 1 College Athletic Department Career Aspirations
Adviser: Heather Barber

Chad Roberge
Tessa Smith
Psychology
General Strain Theory, Perceptions of Police Legitimacy, and Juvenile Rule Violating Behavior
Adviser: Ellen Cohn

Mary Rossi
Human Development and Family Studies
Laughing Out Loud: Humor Usage in Young Childhood Classrooms
Adviser: Corinna Tucker

David Susca
Recreation Management and Policy
The Relationship between School Connectedness and Problem Substance Use
Adviser: Karen Vangundy

Steven Troy
Biochemistry, Molecular and Cellular Biology
The Effects of Nanoparticles and Biogenic Polyamines on Horizontal Gene Transformation Efficiency
Adviser: Subhash Minocha

MUB, Granite State Room
Advanced Technical Writing
Adviser: Christine O’Keefe

Morgane Gaudissart
Civil and Environmental Engineering
Technical Writing in Environmental Engineering

Stacy Ann Johnson
Civil and Environmental Engineering
Technical Writing in Environmental Engineering

Margaret O’Donnell
Communication
Technical Writing in News Media

Monica Poisson
Nutrition
Technical Writing in Nutrition

Dylan Sullivan
Information Systems Management
Technical Writing

Parents Association Undergraduate Research Symposium

Oral Presentations, Session B

Friday, April 24
10:50 am-Noon
Memorial Union Building

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

MUB, Room 233
Communication Honors and Independent Study Research

Moderator: Kevin Healey

Tony AbouJaoude
Communication
Communicating Community: A Case Study in Consumerism
Adviser: Lawrence Prelli

Heather Campbell
Communication
Adviser: Michael Soha

Katherine McAuliffe
Communication and English/Journalism
Exploring Public Radio
Adviser: Kevin Healey

Gabrielle Terry
Communication
From Conflict Resolution to Transformation: A Case Study
Adviser: Sheila McNamee
| MUB, Room 237 |
| Exploring Anthropology: Session II |
| Moderator: Svetlana Peshkova |
| Emily Belanus  
Anthropology  
Abortion in Islam  
Adviser: Svetlana Peshkova |
| Jessica David  
Anthropology  
NGOs Creatively Navigating Restrictions in the Middle East and North Africa  
Adviser: Svetlana Peshkova |
| Lane McDonough  
Women’s Studies  
Gender Reassignment in Iran  
Adviser: Svetlana Peshkova |
| Alexa Procaccianti  
Women’s Studies  
Anthropology, Islam, and Gender  
Adviser: Svetlana Peshkova |
| Subha Singh (McNair Scholar)  
Anthropology  
HIV Knowledge among Muslim University Women  
Adviser: Joe Lugalla |

| MUB, Room 330 |
| International Affairs: Managing Conflict: Human Security, Justice, and Peacebuilding |
| Adviser: Molly Wallace  
Moderator: Christine Turner |
| Kerri Hagstrom  
International Affairs and History  
The Business of Terror |
| Lena Khawatmi  
International Affairs and Political Science  
Civil Society in Water Crisis Management: The Case of the Jordan River Valley |
| Fernanda Lima  
International Affairs and Communication  
Goal! Or Maybe Not?: Changes for Rio Favela Residents after Pacification in 2010 |
| Kevin McAleese  
International Affairs and Political Science and Economics  
Conflict Resolution in Nagorno-Karabakh |
| Sarah Pollard  
International Affairs and French  
Seeking Justice: Senegale’s Twenty-Year Delay in the Prosecution of Hissène Habré |

| MUB, Room 332 |
| International Affairs: National Economies in a Global Market |
| Adviser: Molly Wallace  
Moderator: Beth Kilinc |
| Andrea Dionne  
International Affairs and Linguistics  
Sex Trafficking in Japan |
| Noelle Kotelly  
International Affairs and Economics  
Argentina’s Crisis in Consumerism |
| Bryan Merrill  
International Affairs and Political Science and Economics  
Russian Roulette: Evaluating the Effects of Russia’s Natural Resource Endowments on Tertiarization |
| Michael Moser  
International Affairs and Civil and Environmental Engineering  
| Rachel Provost  
International Affairs and Civil and Environmental Engineering  
Coffee Certification in Costa Rica |

| MUB, Room 334 |
| International Affairs: Relations between Immigrant/Refugee Communities and the Host Country: Challenges and Successes |
| Adviser: Molly Wallace  
Moderator: Catherine D’Auteuil |
| Jenna Calcavecchia  
International Affairs and German  
Why Berlin Is Accepting of Immigrants |
Tim Doucette
International Affairs and French
Liberté, Égalité, Fraternité: How Are Immigrants Integrated through French Schools?

Kevin Dwyer
International Affairs and Spanish
Discriminación: How It Affects the Mental Health of Immigrants in Spain

Emily Kwesell
International Affairs and English/Journalism
Protecting Liberté, Égalité, Fraternité: The Effects of Nativism on French Immigration Policies

David Mansfield
International Affairs and Psychology
A Study of Racial Tension in France

Anna Wageling
International Affairs and Political Science
Once a Refugee, Always a Refugee: How Regional Humanitarian Crises Have Affected Jordan Socially, Economically, and Politically

MUB, Room 336

**Multidisciplinary Session III: Representation, Revolution, and Protest**

Moderator: Siobhan Senier

Randal Coulstring
Undeclared

Kyle Parks-Damon
Civil and Environmental Engineering
From the Archives: UNH’s Black Student Protests 1998-1999
Advisers: Monica Chiu

Nathan Faro
Music Theory
Rediscovering Revolutions: The Use of Folk Song in Amy Beach’s Variations on Balkan Themes
Adviser: Rose Pruiksma

Lindsey Swank
English Teaching
Native American Literature 2.0: Getting Indigenous Authors on the Web
Adviser: Siobhan Senier

Brian Waterhouse
Philosophy
Psychedelics and Liberation
Adviser: Nicholas Smith

MUB, Room 321

**Multidisciplinary Session IV: Investigating Adolescence, Memory, and Community Health**

Moderator: Robert Ross

Abigail Burmeister
Sociology
Gender Socialization: Its Effects on Adolescents
Advisers: Nena Stracuzzi

Melanie Green
Ecogastronomy and Nutrition
It Takes a Village: Partnerships for Community Health
Adviser: Semra Aytur

Katie Parent
Social Work and Psychology
The Role of Adult Confidants on Adolescent Outcomes
Adviser: Ellen Cohn

Thomas Reese
Psychology
Do You Raise the Criminal?: The Effects of Parenting Styles on Adolescent Legal Attitudes
Advisers: Alexander Blandina, Ellen Cohn

Randall Wallbaum
Neuroscience and Behavior
Influence of Genetic Polymorphisms in COMT Gene on Oscillatory Power During Contextual Memory
Adviser: Robert Ross

MUB, Room 302

**Political Science: Development through Failure**

Adviser: Lawrence Reardon
Moderator: Tegan O’Neill

Kayla Burke
Political Science
ISIS: A Growing Threat

John David
Political Science
Russian Economic Failure Since the Fall of the USSR

Adam Howard
Political Science
Argentina and Brazil: Currency Pegs and Developing Economies

Nathan Marcucci
Political Science
Russia, Pick Your Poison

Sean Mitchell
Political Science and Economics
Goodbye Greece: Existing of the Eurozone

MUB, Room 203

**Political Science: Global Governance and New Security Threats**

Moderator: Lionel Ingram

Laura Rose Donegan
Political Science
A Just and Sustainable Solution to the Boat People Predicament in Australia?
Adviser: Lionel Ingram

Allison Enck
International Affairs and Environmental Conservation Studies
The Independence Referendum in Catalonia
Adviser: Alynna Lyon

Vinny Mwano
Political Science
Access to Clean Water: Global Politics and the Role of International Organizations
Adviser: Alynna Lyon
Leonidas Ocampo  
International Affairs and Political Science  
Chinese Internet Censorship  
Adviser: Lawrence Reardon

Robert Richard-Snipes  
Political Science and Women’s Studies  
Boko Haram and #bringbackourgirls  
Adviser: Alynna Lyon

MUB, Room 304  
**Political Science: The Drug Wars**

Moderator: Alden F. Reed

Emily Gold  
International Affairs and Political Science  
May Contain Cocaine: Early U.S. Drug Regulations and Their Connection to Current Policies  
Adviser: Mary Malone

Annemarie Guare  
Political Science  
Drug Policy Reform in Uruguay: A Lesson to Be Learned  
Adviser: Mary Malone

Matthew Holmes  
History  
British Views on the Opium Wars  
Adviser: Yan Lu

Andrew Mudgett  
Justice Studies and Political Science  
Marijuana Legalization: The Necessary Policy: Comparing Uruguay and Colorado Approaches  
Adviser: Mary Malone

MUB, Room 340  
**Risk and Human Experience**

Adviser and Moderator: Brent Bell

Kayla Gray  
Kinesiology  
The Correlational Study of Various Power Tests and Torque Acceleration Energy as Methods to Predict Sprint Performance  
Advisers: Ronald Croce, Tim Quinn

Christina Kelly  
Occupational Therapy  
Muslim Pakistani Women with Disabilities  
Adviser: Svetlana Peshkova

Adelaide Murray  
Health Management and Policy  
Comparative Analyses of Flu Prevention at New England State Universities: Targeted Recommendations for Change  
Advisers: Rosemary Caron, Marc Hiller

Nicole Paddock  
Occupational Therapy  
A Survey of UNH Students’ Attitudes about Mental Health Disorders and Its Influence on Help-Seeking Behaviors  
Adviser: Kerryellen Vroman

MUB, Room 338  
**Research in Health Sciences**

Moderator: Melissa Rodgers

Kelsey Bennion  
Communication Sciences and Disorders  
Richard Dadd: Madness Sparks Brilliance  
Adviser: Rebecca Karo

Evan Collins  
Computer Science

Emily Eno  
Nutrition and Zoology and Computer Science

Thomas Miller  
Political Science

Lucy Spence  
Zoology  
How Does Your Major Affect the Type of Risks You Take?

Brendan Freund  
English/Journalism

Emma Gallagher  
Zoology  
Music’s Influence on Young Adult Behavior

Shannon Scribner  
Kinesiology and Management and Political Science  
Why Is Not Going to College a Risk?

MUB, Room 207  
**Voices of the UNH Writing Center: Social Communication and Collaboration**

Moderator: Sarah Franco

Colton Huelle  
English Literature  
Finding the Collective Voice #1: An Overview of Collaboration in Writing and Writing Center Work  
Adviser: Molly Tetreault

Emma Kantola  
Marketing and English  
Finding the Collective Voice #2: An Overview of Collaboration in Writing and Writing Center Work  
Adviser: Molly Tetreault

Brandon Lyman  
Mathematics and Economics  
Finding the Collective Voice #3: An Overview of Collaboration in Writing and Writing Center Work  
Adviser: Molly Tetreault

Christopher Cleary  
Kinesiology

Sydney Duncan  
Athletic Training

Christian Rodriguez  
Undeclared

Jennifer Royka  
Communication  
What Are the Risks of Being Social in College?
Kaila Salsman
English Teaching
Let’s Talk: Exploring Social Communication in the Writing Center
Adviser: Alecia Magnifico

Parents Association Undergraduate Research Symposium

Oral Presentations, Session C

Friday, April 24
12:15-1:25 p.m.
Memorial Union Building

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

MUB, Room 233

Distinguished Student Research in Communication

Moderator: Michael Jackson

Mikayla Collins
Communication
Persuasion Techniques in Reconceptualization Science: Rethinking Low-Dose Ionizing Radiation
Adviser: Michael Jackson

Justin Fortier
Communication
Color in Film
Adviser: Lawrence Prelli

Leigh Fraser
Communication
Songs of Faith and Devotion: The 1980's, Religion and Dark Salvation in Gothic Subculture
Adviser: Kevin Healey

Susan Yen
Communication
What Can McCurry’s Photographs Do for the Children?
Adviser: Michael Jackson

MUB, Theatre I

Exploring Spanish: Session III

Moderator: John Chaston
Judge: Jaume Marti-Olivella

Laura Bello
Spanish
Code-Switching y la Música Española
Adviser: Holly Cashman

Allessandra Chinetti
Spanish and Communication
The Use of Child Protagonists in Post-War Spanish Cinema
Adviser: Jaume Marti-Olivella

Eva Golden
Marine, Estuarine and Freshwater Biology and Spanish
The Effect of Syllable Position on the Pronunciation of Sibilants and Liquids in Puerto Rican Spanish
Adviser: John Chaston

Sean King
Spanish
The Don Quixote of Northanger Abbey
Adviser: Carmen Garcia-Rasilla

Olivia Marple
English/Journalism and Spanish
Navigating the Borders between Patriarchy and Female Power: An Analysis of the Portrayal of Women in Spanish Cinema from 1948 to 2014
Adviser: Jaume Marti-Olivella

Danielle Mason
Sociology and Spanish
The Role of Study Abroad in Language Acquisition
Adviser: John Chaston

MUB, Room 332

Feminism in Action

Moderator and Adviser: Joelle Ryan

Shannon Alper
Women’s Studies and Psychology

Anna Jones
Women’s Studies

Chloe Martin
Women’s Studies

Jennifer Turner
Social Work

Alexa Wheeler
History and Women’s Studies

MUB, Room 340

Multidisciplinary Session V: Part 1—Exploring Perspectives of Patient, Parent, and Student

Moderator: Myles Lynch

Alyssa Calef
Social Work
Student Perspectives on Advance Directives
Adviser: Laura Davie

Emma O’Brien
Human Development and Family Studies
Expect the Unexpected: Evaluation of the Parent Education Program Family Crashers
Advisers: Frederick Alleva, Tyler Jamison

Emily Schlachter
Nursing
Patient Perceptions of Bedpan Use
Advisers: Raelene Shippee-Rice, Carol Williams-Barnard
Part 2—Challenges of Body and Vision

Sarah DiIanni
Nicholas Duggan
Hanne Hansen
Jaclyn Johnston
Amanda LeBel
Patricia Levesque
Megan Lusignan
Hayley Robertson
Ahlia Slone
Neuroscience and Behavior
The Influence of Real and Perceived Motion on Putative On- and Off-Cell Channels in Motion Induced Blindness
Adviser: William Stine

Sarah DiIanni
Nicholas Duggan
Hanne Hansen
Jaclyn Johnston
Amanda LeBel
Patricia Levesque
Megan Lusignan
Hayley Robertson
Ahlia Slone
Neuroscience and Behavior
The Influence of Real and Perceived Motion on Putative On- and Off-Cell Channels in Motion Induced Blindness
Adviser: William Stine

Andrew Kitt
Psychology
Stereo Acuity as a Function of Stimulus Separation: Examining Crowding Effects While Controlling for Spatial Frequency
Adviser: William Stine

Puskar Siwakoti (McNair Scholar)
Biomedical Science
Influence of Phenotypic Switching on Virulence by Emergent Vibrio parahaemolyticus
Adviser: Cheryl Whistler

MUB, Room 321

Multidisciplinary Session VI: Creative Studies in Literature, Film, Theatre and Art
Moderator: Courtney Marshall

Nihco Gallo
Mechanical Engineering
Subtlety, Sophistication, and the Contemplation of Proportion
Adviser: Leah Woods

Elizabeth Girard
Theatre
Noverre’s Ballet D’Action
Adviser: Rebecca Karo

Samantha Granville
English/Journalism
The Yellow Wallpaper: The Role of Women and Mental Illness
Adviser: Courtney Marshall

William Sturtevant
English
Gender and Survival in Horror Movies
Adviser: Delia Konzett

MUB, Room 304

Political Science: The Art of Politics
Moderator: William J. Nunnally

Bradley Fredette
Political Science and History
Machiavelli’s Art of War
Adviser: John Kayser

Aaron Jones
Political Science
The 2015 Canadian Election: Will the Harper Government Stay in Power?
Adviser: Susan Siggelakis

Alvaro Maranon
International Affairs and Political Science
Machiavelli’s Art of War and the Role of the Military
Adviser: John Kayser

Abbygale Martinen
Political Science
The Influence of John Locke on the United States Government
Adviser: John Kayser

MUB, Room 302

Political Science: Transaction Costs of Chinese Economic Development
Adviser: Lawrence Reardon
Moderator: Chen Haojun

Zachary Dumont
Political Science
The Chinese Impact on Global Climate Change

Deirdre LaSelva
Justice Studies and Political Science
Chinese Exports--A Risky Business

Paul Moore
Political Science
China’s Economic Collapse under Mao Zedong

Kristy Parhiala
Political Science
The China Model?

Gino Sergio
Political Science
The Sino-Soviet Split: Divorce Communist style
### Peter T. Paul College of Business and Economics Undergraduate Research Conference

#### Poster Presentations

**Friday, April 24**
10 a.m. - 5 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.

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#### Paul College G25, 12-1:30 p.m.

**Business Analytics and Spreadsheet Modeling**

Moderator: Roger Grinde

<table>
<thead>
<tr>
<th>Presenter</th>
<th>Affiliation</th>
<th>Adviser</th>
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<tbody>
<tr>
<td>Tyler Angle</td>
<td>Finance and Information Systems Management</td>
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<tr>
<td>Michael Campbell</td>
<td>Information Systems Management and Computer Science</td>
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<td>Rachel Cardarelli</td>
<td>International Business and Economics and Management</td>
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<td>Alyssa Cowan</td>
<td>Information Systems Management and Management</td>
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<td>UNH Housing Laundry Services Modeling and Pricing Analysis</td>
<td>Adviser: Roger Grinde</td>
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<td>Michael Bettencourt</td>
<td>Information Systems Management</td>
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<td>Elizabeth Forde</td>
<td>Finance and Information Systems Management</td>
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<tr>
<td>Alexander Ossinger</td>
<td>Finance and Information Systems Management</td>
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#### Paul College G25, 10-11:30 a.m.

**Business for People, Planet, and Profits**

Moderator: Fiona Wilson

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<tr>
<th>Presenter</th>
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<tr>
<td>Edith Allard</td>
<td>International Affairs and English/Journalism</td>
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<tr>
<td>Marta Avots</td>
<td>International Business and Economics</td>
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<td>Brendan Beale</td>
<td>Finance and Accounting</td>
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<td>Lilah Cherim</td>
<td>Undeclared</td>
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<td>Andrew DeMeo</td>
<td>Environmental Engineering</td>
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#### UNH Dining Late-Night Operations

Adviser: Roger Grinde

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<tr>
<th>Presenter</th>
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<tr>
<td>Avi Patel</td>
<td>Accounting and Information Systems Management</td>
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<td>Colin Reed</td>
<td>Finance and Information Systems Management</td>
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<td>Kyla Wester</td>
<td>Information Systems Management</td>
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<td>Charles Wooster</td>
<td>Business and Information Systems Management</td>
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<tr>
<td>UNH Housing Laundry Services Modeling and Pricing Analysis</td>
<td>Adviser: Roger Grinde</td>
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Devereux Evans  
Accounting and Finance  
BMW: Advances in Electric Automobile Technology for the Benefit of People, Planet, and Profit.  
Adviser: Fiona Wilson

Elliot Gordon  
Finance  
The Chevron Way  
Adviser: Fiona Wilson

Charlotte Harris  
Communication  
Marriott Hotels: An Analysis of People, Planet, and Profits  
Adviser: Fiona Wilson

Adam O’Neil  
Electrical Engineering  
Cisco Systems, Inc.: An Analysis of People, Planet & Profits  
Adviser: Fiona Wilson

Jacob Riehl  
Undeclared  
Keurig Green Mountain: A Case Study in People, Planet & Profits  
Adviser: Fiona Wilson

Thalia Thomas  
Mathematics  
Ben & Jerry’s: An Analysis of People, Planet, and Profits  
Adviser: Fiona Wilson

Andrew Ware  
Mechanical Engineering  
Tesla Motors: An Exploration and Explanation of Business for People, Planet, and Profits  
Adviser: Fiona Wilson

Garlande Beckett  
Ecogastronomy and Nutrition  
Ancient Grains: A New Food Trend  
Adviser: Joanne Curran-Celentano

Taylor Bennett  
Ecogastronomy and Hospitality Management  
Evaluation of California Wine Production Responses to Climate Change  
Adviser: Hector Galbraith

Kristina Borchert  
Ecogastronomy and Hospitality Management  
PalmSomm: A Personalized Sommelier Smartphone Application  
Adviser: Nelson Barber

Christopher Casale  
Ecogastronomy and Philosophy  
Stressed Out Vines: The Comparison of New & Old World Wine Philosophies  
Adviser: Daniel Winans

Sacha Cavezzali  
Ecogastronomy and Hospitality Management  
A Business Plan for a Sustainable Hotel in Hawaii  
Advisers: Clayton Barrows, Daniel Winans

Jordan Daly  
Ecogastronomy and Finance and Hospitality Management  
Daly’s: Business Proposal for Farm-to-Table Restaurant  
Adviser: Daniel Winans

Mikaela DiGesu  
Ecogastronomy and Economics  
Cold Climate vs Warm Climate Viticulture: How Where Grapes Are Grown Affect the Wine We Drink  
Adviser: Daniel Winans

Erica Gallo  
Ecogastronomy and Nutrition  
The Current State of Elementary Level Nutrition Education  
Adviser: Amanda Lee

Katherine Gruezke  
Ecogastronomy and Hospitality Management  
The Buzz on Bees: The Impact of Bees on Our Food Systems  
Adviser: Daniel Winans

Kelsey MacDonald  
Ecogastronomy and Nutrition  
Culinary Assessment of Sweet Potato Varieties  
Advisers: Joanne Curran-Celentano, Rebecca Sideman, Daniel Winans

Lucy McGinty  
Ecogastronomy and Hospitality Management  
ABC Burgers: Business Plan for a Food Truck  
Adviser: Daniel Winans

Kelsey McGovern  
Ecogastronomy and Women's Studies  
From Mindless to Mindful: How Does Mindful Eating Help Solve Eating Issues?  
Adviser: Courtney Marshall

Eleni Ottalagana  
Ecogastronomy and Nutrition  
SimplyEleni: Registered Dietitian Specializing in Personalized Services with a Holistic Approach to Health  
Adviser: Daniel Winans

Hannah Rivers  
Ecogastronomy and English/Journalism  
The Dining Hall Guide  
Adviser: Daniel Winans

Erin Short  
Ecogastronomy and Sustainable Agriculture and Food Systems  
Aliment: A Food Truck Business Plan  
Adviser: Daniel Winans

Paul College G45, 10-11:30 a.m.  
EcoGastronomy: Capstone Research and Projects  
Moderator: Dan Winans

Jaime Basile  
Ecogastronomy and Management  
The Wines from Down Under: Wine Tasting of Australian Wines  
Adviser: Daniel Winans
Chun Chen  
Economics  
Starting Salaries of College Students and Tuition Payback Period  
Adviser: Aziz Saglam

Aaron Dow  
Economics  
Analysis of College Characteristics That Influence Tuition Rates  
Adviser: Aziz Saglam

Danielle Fregeau  
Economics  
What makes a Successful Microfinance Institution?  
Adviser: Aziz Saglam

Brendan Garrett  
Economics  
Determinants of NFL Offensive Skilled Position Player Salaries  
Adviser: Aziz Saglam

Lauren Howell  
Economics  
Why Do Americans Enlist in the Military?  
Adviser: Aziz Saglam

Noelle Kotelly  
International Affairs and Economics  
Decrease in Oil Prices vs. Consumer Spending  
Adviser: Aziz Saglam

Michael MacDonald  
Economics  
How do Performance Enhancing Drugs Affect Salaries in Major League Baseball?  
Adviser: Aziz Saglam

William Meyer  
Economics and History  
The Historical Context of the Wage Recovery from the 2007-2008 Recession Compared to Previous U.S. Recessions  
Adviser: Aziz Saglam

Catherine Putney  
Economics  
An Economic Valuation of NHL Salaries: A Roster Regression Analysis  
Adviser: Aziz Saglam

James Riley  
Economics  
Financial Advisors’ Compensation and Returns on Assets  
Adviser: Aziz Saglam

Kristopher Roller  
Economics  
Sex Discrimination Based On Applicants’ Resumes  
Adviser: Aziz Saglam

Tyler Saltzman  
Economics  
Determinants of Winning Salary for PGA Golfers  
Adviser: Aziz Saglam

Thomas Van Dalsum  
Economics  
The Pharmaceutical Industry and Orphan Drugs  
Adviser: Aziz Saglam

Samantha-Jo Virga  
Economics  
Economic Impact of Global Anxiety on Equity Markets  
Adviser: Aziz Saglam

Muhammad Khan  
Finance  
Labor Economics 5  
Adviser: Reagan Baughman

Christina Kijewski  
Political Science  
Labor Economics 6  
Adviser: Reagan Baughman

Jacob Lehoux  
Economics  
Labor Economics 7  
Adviser: Reagan Baughman

Michael MacDonald  
Economics  
Labor Economics 8  
Adviser: Reagan Baughman

Owen Martin  
Political Science  
Labor Economics 9  
Adviser: Reagan Baughman

Patrick Meade  
Kinesiology  
Labor Economics 10  
Adviser: Reagan Baughman

Kristopher Roller  
Economics  
Labor Economics 11  
Adviser: Reagan Baughman

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Paul College, Great Hall  
**Labor Economics**

**Moderator: Reagan Baughman**

**Michael Darisse**  
Economics  
Labor Economics 1  
Adviser: Reagan Baughman

**Daniel Dion**  
Economics  
Labor Economics 2  
Adviser: Reagan Baughman

**Brendan Garrett**  
Economics  
Labor Economics 3  
Adviser: Reagan Baughman

**Kaitlyn Kelley**  
Economics  
Labor Economics 4  
Adviser: Reagan Baughman

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Paul College, Great Hall  
**Multidisciplinary Poster Presentations**

**Moderator: Lin Guo**

**Matthew Anderson**  
Economics

**Justin Cawley**  
Economics

**Tyler Saltzman**  
Economics

**Thomas Van Dalsum**  
Economics  
What Factors Affect Blood Donation?  
Adviser: Ju-Chin Huang
Kyle Boudrot
Management and Entrepreneurial Studies
Marianne Travers
Marketing and Hospitality Management
Michael Zielinski
Marketing
Barilla Analysis
Adviser: M. Billur Akdeniz

Rayce Calef
Marketing and Management
Shannon Doherty
Jonathan Milone
Kasi Murphy
Marketing
Marketing Opportunity Analysis-Newman’s Own
Adviser: M. Billur Akdeniz

Jessica Denoncour
Accounting
The Emergence of Assurance on Sustainability Reporting: A Stakeholder Perspective
Adviser: Michael Ozlanski

Kathleen Gillespie
Finance
Unequal Pay: The Role of Gender
Adviser: Caitlin DeSoye

Marley Harunk
Accounting
The Lehman Brothers: A Lesson in Ethics and the Law
Adviser: David Hasseldine

Jeffrey Lertora
Marketing
Influences on Healthy Eating Intention
Adviser: Lin Guo

David Mesa
Finance and Economics
Taking a New Approach in Valuating Stock Prices in Latin-America
Adviser: Michael Goldberg

Qian Wang
Accounting
Ethnic Foods’ Business Impact in the United States
Adviser: Pei-Jou Kuo

Alyssa Washakowski
Management and Finance
The Moderating Effects of Praise on the Relationship Between Job Task and Work Motivation
Adviser: Jennifer Franczak

Alexander Whitmore
Finance and Management
The Next Generation of Real Estate
Adviser: Caitlin DeSoye

Hunter Whitmore
Finance and Management
Green Construction
Adviser: Jeffrey Sohl

Sarah Wiggins
Management
Can Agritourism Change Lives for the Better? A Case Study in Chile
Adviser: Nelson Barber

Rachel Winsor
Marketing
The Magic of the Mouse
Adviser: Bruce Pfeiffer

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

Oral Presentations

Friday, April 24
10 a.m.-5 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 185

Atkins Investment Group

Janine Appleton
Biomedical Science

Antonio Nastasia
Political Science

Alexander Ossinger
Finance and Information Systems Management
Healthcare
Advisers: Stephen Ciccone, Ahmad Etebari

Nicholas Bagley
Economics
Jonathan Harrison
John Schwartz
Finance
Utilities
Advisers: Stephen Ciccone, Ahmad Etebari

Austin Bauer
Niccolo Hilgendorf
Samantha-Jo Virga
Economics
Economic Strategy
Advisers: Stephen Ciccone, Ahmad Etebari

Jose Bowen
Patrick Sloyan
Finance
Joshua Caouette
Kinesiology
Consumer Staples
Advisers: Stephen Ciccone, Ahmad Etebari

Gaetan Ciot
Jonathan Kiskinis
Finance
Kendre Rodriguez
Entrepreneurial Studies
Consumer Discretionary
Advisers: Stephen Ciccone, Ahmad Etebari

Anna Darling
Eric Paul
Finance
Jacob Lehoux
Economics
Finance
Energy
Advisers: Stephen Ciccone, Ahmad Etebari

Charles Demarco
Finance and Information Systems Management
Matthew Doubleday
Accounting
Garrett Malagodi
Computer Engineering
Technology & Media
Advisers: Stephen Ciccone, Ahmad Etebari
Paul College 125

Marketing Workshop 1A

Moderator: Peter Masucci

Katharine Ambrose
Maegan Grew
Cameron Schilling
Weibin Ye
Marketing

Daniel Lawson
Marketing and Management

Kelly McColough
Marketing and Hospitality Management

Melanie Smith
Marketing and Entrepreneurial Studies

Sharon’s Granola: Design and Development of a Marketing Campaign to Support the Launch of a New Consumer Product
Adviser: Peter Masucci

Thomas Auger
Marketing

Lindsey Davis
Johnathan Martin
Erin Preisner
Marketing and Management

Alison Fein
Marketing and International Business and Economics

King Hung Loh
Marketing and Finance

Matthew McAuliffe
Marketing and Entrepreneurial Studies

Lianna McGauley
Marketing and Management and Theatre: Dance

Sarah Pearsall
Marketing and Art Studio

Harley Davidson: Design and Development of a Marketing Campaign to Increase Participation in the Annual Laconia Motorcycle Week Event
Adviser: Peter Masucci
Paul College 135  
**Marketing Workshop 1B**
Moderator: Peter Masucci
Gil Adams  
Shannon Doherty  
Winslow Estevez  
Alyssa Howard  
Anne Meaney  
Justin Paquette  
Christopher Shaheen  
Marketing  
Matthew Kaye  
Marketing and Finance  
Kathleen Kilbourn  
Kristianna Purinton  
Marketing and Management  
Constellation Brands - Project #2: Research and Development of a Marketing Plan and Associated Programs to Introduce a New Wine Brand into the Market  
Adviser: Peter Masucci

Chelsey Canto  
Marketing and Communication  
Joey Clougherty  
Zachary Zeller  
Marketing and Finance  
Nicholas DePace  
Morgan Faustino  
Alexandra Malagodi  
Xavier Ng  
Summer Olson  
Brayden Rudert  
Marketing  
Kayla Wyatt  
Marketing and Entrepreneurial Studies  
Robie's Country Store and Museum: Development of a Marketing Plan and Associated Programs to Reinvigorate Business at the Store as well as Increase the Number of Visitors to the Museum  
Adviser: Peter Masucci

Peter Cummings  
Marketing and Finance  
Kaitlyn McLaughlin  
Jacob McNamara  
Marketing and Management  
Thi Tuyet Pham  
Maxwell Smith  
Jamie Stevenson  
Casey Sweeney  
Benjamin Walsh  
Benjamin Wauters  
Rachel Winsor  
Marketing  
Brian Walker  
Marketing and Music  
*Constellation Brands - Project #1: Design and Development of Marketing Programs, Including Guerilla Tactics, to Reinvigorate and Increase Sales the Ravenswood Family of Wines*  
Adviser: Peter Masucci

Hallianna D'Andreti  
Marketing and Management  
Garrett Ducey  
Mitchell Hamor  
Marketing and Finance  
Mitchell Hartmann  
Sarah Osiecki  
Sam Romano  
Patricia Vossler  
Conor Woelfel  
Marketing  
Zachary Moore  
Marketing and International Business and Economics  
Amelia Topoulos  
Marketing and Health  
Management and Policy  
Kent Stephens' Stage Force: Research and Development of Marketing Programs to Increase Awareness and Audience Size for this Regional Theater Company  
Adviser: Peter Masucci

Paul College 125  
**Marketing Workshop 2A**
Moderator: Peter Masucci
Samantha Baril  
Meredith Cline  
Taylor Sanborn  
Michael Zielinski  
Marketing  
Rayce Calef  
Jessica Wood  
Marketing and Management  
William French  
Marketing and International Business and Economics  
Marianne Travers  
Marketing and Hospitality Management  
Samantha Uvino  
Marketing and Finance  
Jillian Wilbur  
Marketing and Nutrition  
L. L. Bean - Project #2: Research and Development of Social Media Marketing Strategies Designed to Attract and Build Credibility with Younger Customers  
Adviser: Peter Masucci

Matthew Beaulieu  
Kevin Brown  
Nicolette Nasiopoulos  
Holly Strand  
Robert Walsh  
Marketing  
Haley Borcherding  
Samuel Pierce  
Marketing and Information Systems Management  
Christopher Theriault  
Brian Wilson  
Marketing and Finance  
Kimberly Vaughn  
Marketing and Management  
eFish USA: Development of a Marketing Campaign to Increase Brand Awareness and Drive Customers to their eCommerce Website  
Adviser: Peter Masucci
Austin Butler  
Alexander Fandozzi  
Nicholas Fuller  
James Kersey  
Sarah Tibbo  
Regina Yip  
Marketing  
John Chalas  
Marketing and Finance  
Devin Garvey  
Heather Kashman  
Jessie Ryan  
Marketing and Management  
FanLockr: Research and Development of a Marketing Campaign to Increase Awareness and Grow User Base  
Adviser: Peter Masucci  

Haley Coy  
Mark Hamilton  
Tate Hartmann  
Alex Lapointe  
Kasi Murphy  
Sheamus Standish  
Hannah Toporoff  
Marketing  
Leonard Mullen  
Marketing and Information Systems Management  
Albert Pace  
Nicole Zahka  
Marketing and Management  
Catherine Veilleux  
Marketing and Entrepreneurial Studies  
L. L. Bean - Project #1: Design and Development of Marketing Programs to Attract and Retain Younger Customers  
Adviser: Peter Masucci  

Michael Colorusso  
Marketing and Entrepreneurial Studies  
Derek Cummings  
Wesley Richards  
Marketing and Management  
Lauren Easley  
Marketing and Art Studio  
University Instrumentation Center: Research and Development of a Marketing Plan to Promote the Rental Usage of Specialized Scientific Instruments Outside of UNH  
Adviser: Peter Masucci  

Jessica Blumenthal  
Kathryn Chisholm  
Meagan Dolan  
Christopher Kaski  
Colleen Kelly  
Jonathan Milone  
Jenny Nguyen  
Allison Sherwood  
Douglas Wentworth  
Marketing  
Douglas Hopkins  
Marketing and Economics  
Kelsey Krapf  
Marketing and Communication  
Kennebunk Savings Bank: Design and Development of Marketing Programs to Promote the Opening of a New Branch in Durham, and to Attract New Customers from the UNH Community  
Adviser: Peter Masucci  

Melissa Bogel  
John Bull  
Jaclyn Harding  
Molly Megna  
Alexandra Popovici  
Taylor Ryan  
Casey Whalen  
Marketing  
Delaney Dameron  
Marketing and Economics  
Evan Gard  
Marketing and Environmental Conservation Studies  
Peter Heislein  
Marketing and Management  
Justin Spitz  
Marketing and Finance  
Red Carpet Florist & Gift Boutique: Research and Development of a Marketing Plan and Programs to Increase Awareness and Expand Business  
Adviser: Peter Masucci  

Daniel Burk  
Julie Fierley  
Meaghan Foley  
Jaclyn Hodas  
Shannon Kinch  
Andrew Tonge  
Marketing  
Erik Everton  
Laura Mann  
Marketing and Management  
Carly Lord  
Marketing and Information Systems Management and Hospitality Management  
Connor Roelke  
Marketing and Communication  
 Alive Organic Matters: Design and Development of a Marketing Plan and Programs to Increase Awareness and Sales of Fertilizer Products Made from Worm Castings  
Adviser: Peter Masucci  

Paul College G45  
Multidisciplinary Oral Presentations  
Moderator: John Hasseldine  
Alex Lapointe  
Benjamin Walsh  
Marketing  
Eric Skyta  
Entrepreneurial Studies  
The Peanut Butter Chronicles  
Adviser: M. Billur Akdeniz  
William Meyer  
Economics and History  
Combining Regional Approaches to Climate Change: An Economic Analysis of Linking Regional Permit Trading Systems  
Adviser: Robert Mohr  
Aaron Scheinman  
Economics  
The Acess to Capital Project: Exploring Equity Crowdfunding as a Boost to Nigeria’s Startup Economy  
Adviser: John Orcutt
The Naked Arts—Creativity Exposed!

Act III

Friday, April 24
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.

Claire Cortese
English and Studio Art
Eros The Process of Poetry
Advisers: Mekeel McBride, Thomas Payne

Austin Leavitt
English
Insomnia The Process of Poetry
Advisers: Mekeel McBride, Thomas Payne

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

Bud Albin Challenge Round

Friday, April 24
1 p.m. - 4:30 p.m.

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.

A list of participants will be available at this event.

Psychology Department
George M. Haslerud
Undergraduate Research Conference

Friday, April 24
1:30-5:00 p.m.
McConnell Hall, Room 340

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.

Casey Benner
Justice Studies and Psychology
Unwanted Sexual Experiences: Gender Differences in Reporting Rates via Web Survey vs. Paper Survey
Adviser: Ellen Cohn

Laura Hapke
Psychology
Perceived Social Support Networks among Children with Intellectual and Developmental Disabilities
Adviser: Pablo Chavajay

Brendan Lortie
Psychology
Personal Intelligence in the Workplace
Adviser: John Mayer

Ashley MacPherson
Psychology
The Fifty Shades Effect: Does Erotic Literature Influence Body Dissatisfaction?
Advisers: Katie Edwards, Kara Anne Rodenhizer

Nadine Maliakkal
Psychology
Parents, Peers, and Rule-Violating Behaviors
Adviser: Ellen Cohn

College of Health and Human Services
Grimes Award Competition

Friday, April 24
1:30-4 p.m.
Pettee Hall, Room G10

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

A list of participants will be available at this event.
Honors English Undergraduate Research Conference

Friday, April 24
2-6 p.m.
Hamilton Smith Hall, English Department

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

Nicole Anderson
English
The Secrets We Bear
Adviser: Clark Knowles

Spencer Benson
English
Race and Gender in Film
Adviser: Delia Konzett

Brady Brickner-Wood
English
Me against the World: Realizing the Social and Political Relevance of Tupac Shakur
Adviser: Petar Ramadanovic

Julia Brush
English and Classics
We Are an Art Form: Poems
Adviser: Mekeel McBride

Madalyn Northcutt
English
Race in America
Adviser: Delia Konzett

Melanie Platt
Linguistics
Narrative Analysis of West End Speakers
Adviser: Maya Ravindranath

Joshua Richardson
English
Examining Race Representation in Film
Adviser: Delia Konzett

Jacklyn Trexler
English and Philosophy
Blake, Nietzsche, and Slave Morality
Adviser: Michael Ferber

Kathleen Uhlman
Linguistics
Use and Perception of Taboo Language in College-Aged Females
Adviser: Rochelle Lieber

Mackintosh Willingham
Theatre
Sponsor Me: The Evolution of the Sport, Culture, and Film that Created the Multi-million Dollar Skateboarding Industry
Adviser: Delia Konzett

Mackintosh Willingham
Theatre
Has the American Indie Film Sold Out?
Adviser: Delia Konzett

Philosophy Department Undergraduate Research Conference

Friday, April 24
4-8:30 p.m.
Murkland Hall, Room G17

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

Anna Allen
Ecogastronomy and Philosophy
Bridging the Gap: Existentialism and Eastern Traditions
Adviser: Drew Christie

Thomas Berry
Dustin Newhouse
Philosophy

Jacklyn Trexler
English and Philosophy
Philosophy on Campus
Adviser: Willem De Vries

Joshua Hamor
Philosophy
Offline Simulation Theory and Timothy Williamson’s Epistemology of Counterfactual Conditionals
Adviser: Paul McNamara

Philip Horner-Richardson
Philosophy
Two Views of Nature: Teleology and Mechanism in Kant
Adviser: Nicholas Smith

Amy Simon
International Affairs and Philosophy
Meursault, an Absurd and Nietzschean Man
Adviser: Willem De Vries
24th Annual COLSA Undergraduate Research Conference

Poster Presentations

Saturday, April 25
7:45 a.m.–2 p.m.
MUB (Granite State Room and Theatre II)

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

Adam Aasen
Daniel Minukhin
Elizabeth Smedley
Neuroscience and Behavior

Kaleigh Erickson
Marine, Estuarine and Freshwater Biology
Encoding of Information About Action and Context by Medial thalamus in the Rat
Advisers: Brett Gibson, Robert Mair

Mason Adams
Biomedical Science

Kasey Cushing
Biochemistry, Molecular and Cellular Biology
Healthy Green Campus: Measuring Flame Retardants in UNH Dorms
Adviser: Gale Carey

Anna Alexandrou
Benjamin Gallo
Marine, Estuarine and Freshwater Biology
 Presence of B-N-Methylamino-L-alanine in Sediment and Plankton Samples from New Hampshire Lakes
Advisers: James Haney, Amanda Murby

Anna Alexandrou
Marine, Estuarine and Freshwater Biology
Jessica Eisfeller
Biochemistry, Molecular and Cellular Biology
Presence Of The Hepatotoxic Microcystins In Vaccinium spp. In New Hampshire Lakes
Advisers: James Haney, Amanda Murby

Stephanie Allaire
Kelly Mitchell
Biology
Detection of Cyanotoxins from Feathers of Common Loon Chicks with Implications for Measuring Bioaccumulation of Cyanotoxins from Lakes
Adviser: James Haney

Mark Anthony
Brianne Wheelock
Environmental Sciences
Effects of Allelopathic Chemicals Produced by Alliaria petiolata on Arbuscular Mycorrhizae Fungi
Adviser: Serita Frey

Janine Appleton
Connor Bell
Hannah Glanville
Molly Hartley
Julie Peterson
Biomedical Science
The Flavor of Animal Life: Double in Situ Hybridization of Evolutionarily Ancient Sensory Receptors in the Cnidarian, Hydra magnipapillata
Adviser: David Plachetzki

Bregiesta Arvidson
Marine, Estuarine and Freshwater Biology
Microanalysis of Photo-active Gradients in the Colonial Cyanobacteria Nostoc using Fiber-optic Probe Technology
Adviser: Alan Baker

Rebecca Audette
Biomedical Science
Tyler Koloski
Biochemistry, Molecular and Cellular Biology
Regulation of the Surfactant Serrawettin W2 in Serratia sp. Strain SCBI
Adviser: Louis Tisa

Ann Veatch
Philosophy
Third-Wave Feminism and the Millennial Generation
Adviser: Willem De Vries

Brian Waterhouse
Philosophy
Psychedelics and Liberation
Adviser: Nicholas Smith

Student Composers’ Concert

Friday, April 24
8 p.m.
Bratton Recital Hall,
Paul Creative Arts Center

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

Adviser: Michael Annicchiarico

Nathan Faro
Music Theory
Soapbox Sonata for Solo Flute

Nathan Faro
Music Theory
Chorale for Brass Quintet

Katja Kleyensteuber
Music Education
Great Scott!

Frank Noah
Music
Piano Sonata #1 Trumpet Sonata

2015 UNDERGRADUATE RESEARCH CONFERENCE • 45
Jordan Badger  
Nutrition

Mathew Biondolillo  
Psychology

Does Stage of Change Mediate the Impact of a Motivator to Increase Activity Levels Among College Students?  
Advisers: Summer Cook, Jesse Morrell, David Pillemer

Briah Parchment (McNair Scholar)  
Biomedical Science

Michael Marx  
Neuroscience and Behavior

Marsha Barden  
Barbara Brothwell  
Barbara White  
Occupational Therapy

Jerilee Zezula  
Applied Animal Science

Determining the Effects of Therapy Dog Interactions on Human Blood Pressure and Salivary Stress Hormone Concentrations  
Adviser: Paul Tsang

Monique Beaulieu  
Zoology

How Do Domesticated Dogs Respond to Different Modalities When Using Skype trade  
Adviser: Leslie Curren

Kaylyn Bergquist  
Genetics

Julie Cupido  
Biology

The Effects of Cytokinin on Adventitious Root Formation in Arabidopsis Thaliana  
Adviser: Dennis Mathews

Lydia Birch  
Biomedical Science

Kara Foley  
Environmental Sciences

Investigating Failed Loon Eggs: A Model for Bioaccumulation in Lake Ecosystems  
Advisers: James Haney, Amanda Murby

Connor Breton  
Environmental Sciences

Katherine Sinacore  
Undeclared

Can Tropical Teak Plantations be Managed Sustainably for Both Timber and Water? An Experimental Thinning Study in Panama.  
Advisers: Heidi Asbjornsen, Jefferson Hall

Ryan Brown  
Zoology

The Accuracy and Sensitivity of Handheld Fluorimeters as a Tool for Monitoring Cyanobacteria in Lakes  
Advisers: James Haney, Amanda Murby

Bethany Bucciarelli  
Neuroscience and Behavior

Allison Duquette  
Biology

Personality Type in Relation to Learning Performance in Goats (Capra aegagrus hircus)  
Adviser: Leslie Curren

Brittaney Buchanan  
Wildlife and Conservation Biology

Effects of Distractedness on Accuracy in a Cognitive Task  
Adviser: Leslie Curren

Seth Burgess  
Ashley Medeiros  
Biology

Environmental Sciences

The Effect of Plant Nodulation on Cu2+ Tolerance by Hippophae rhamnoides  
Adviser: Louis Tisa

Christopher Carroll  
Kaelina Lombardo  
Genetics

Lindsay Havens  
Lauren Kordonowoy  
Multi-level Comparison of CGI Distribution Across Thirty-Six Animal Genomes  
Advisers: Matthew Macmanes, David Plachetzkki

Katherine Cart  
Biology

Changes in Turbidity in Maine Estuaries: Effect on Neomysis americana and Mysis stenolepis Feeding Behavior and Diet  
Adviser: Jonathan Pennock

Devan Chirgwin  
Genetics

Nancy Whitehouse  
Biochemistry, Molecular and Cellular Biology and Animal Science

Evolving the Plasma Free AA Dose-response Techniques to Determine Bioavailability of Met in RP-Met Supplements  
Adviser: Andre Brito

Krista Ciaccio  
Biology

Ecological and evolutionary implications of maternal investment in a small carpenter bee  
Adviser: Sandra Rehan

Elizabeth Clark  
Animal Science

Development of Model to Predict Colostrum Quality using Dairy Herd Improvement Data  
Adviser: Peter Erickson

Waylin Clegg  
Sustainable Agriculture and Food Systems

Investigating Alternative Pest Management Strategies for ‘Cabbage Maggot’ Delia radicum on Radishes  
Adviser: Richard Smith

Hannah Cole  
Kala Frye  
Jacqueline Sullivan  
Neuroscience and Behavior

The Role of Dietary-derived Pigments in the Nudibranch Melibe leonina  
Adviser: Winsor Watson

Corey Collins  
Neuroscience and Behavior

Feeding and Satiation of Melibe leonina  
Adviser: Winsor Watson

Caroline Connors  
Ecogastronomy and Nutrition

Valerie Nesom  
Nutrition

Evaluating the Adequacy and Accessibility of Recreation Facilities at UNH  
Adviser: Jesse Morrell
Brandon McDonald
Biomedical Science

Matthew Coyle

Randi Foxall

Sabrina Pankey
A Tale of Two Evolutionary Paths: A Comparison of Symbiotic Evolution of Vibrio fischeri Colonization of Euprymna scolopes and Laboratory Culture Driven Evolution
Adviser: Cheryl Whistler

Caitlin Culver
Genetics
Searching for Sex Determination Markers in Cold Hardy Kiwi (Actinidia arguta) via RAPD PCR
Adviser: Iago Hale

Sumer Panesar
Kyle Scarano
Evan DaSilva
Biomedical Science
Applying Nematode Chemotaxis for Assessment of Vibrio parahaemolyticus Virulence
Adviser: Cheryl Whistler

Megan Dalton
Environmental Sciences
Atmospheric Nuclear Weapon Testing Horizons: Establishing Depth-Age Relationships in an Alaskan Ice Core
Adviser: Cameron Wake

Tien Dang (McNair Scholar)
Biomedical Science
Charaterizing the Angiogenic Properties of Brain Cancer Cells Using the Glioma U-373 Cell Line
Adviser: Paul Tsang

Alana Davidson
Nutrition
Food Insecurity Among Undergraduate Students
Adviser: Jesse Morrell

Jacob DeBow
Wildlife and Conservation Biology
Comparison of Multiple Methods Used to Estimate Foliar Production and Canopy Composition of a Forest
Advisers: Lucie Lepine, Andrew Ouimette

Jaime DeForest
Zoology
The Effects of Sex and Age on Dogs’ Ability to Improve on a Novel Cognitive Task
Adviser: Leslie Curren

Tiffany DeGroot
Bethany Parker
Biochemistry, Molecular and Cellular Biology
Ashley Marcinkiewicz
Competitive Advantage of Vibrio parahaemolyticus Harboring Lysogenic f237-like Phage
Adviser: Cheryl Whistler

Tiffany DeGroot
Bethany Parker
Biochemistry, Molecular and Cellular Biology
Ashley Marcinkiewicz
The Effects of Temperature on Relative Fitness of V. parahaemolyticus Strains from the Great Bay Estuary
Adviser: Cheryl Whistler

Abigail Desrosiers
Biomedical Science
Allison Duquette
Biology
Sarah Geromini
Anastasia Zielinski
Zoology
Effects of Bugling on Roosevelt Elk (Cervus canadensis roosevelti) Vigilance
Adviser: Leslie Curren

Elizabeth Deyett
Emily Shultz
Megan Hartwick
Erin Urquhart
Biomedical Science
Optimized Separation of Estuarine Plankton To Determine Associations with Vibrios
Adviser: Steve Jones

Jennifer Dickson
Biomedical Science
The MinION: A Miniaturized DNA/RNA Sequencer
Adviser: Matthew Macmanes

Emma Downing
Sustainable Agriculture and Food Systems
New Hampshire Dairy Farm Succession: Conversations about Strategies and Challenges of Preserving the Family Farm.
Advisers: Andrew Conroy, Catherine Moran

Lisa Doyle
Biology
Benjamin Gallo
Enrica Jossi
Marine, Estuarine and Freshwater Biology
Loon Chick Blood as a Bioindicator of Cyanotoxins
Advisers: James Haney, Amanda Murby

Austin Drake
Theodore Kazan
Cora Lehet
Hayley Robertson
Neuroscience and Behavior
Complex Encoding of Information About Actions and Context in Rat Prefrontal Cortex in Correlation with Cell Width
Advisers: Brett Gibson, Robert Mair

Thomas DuBois
Judith Hoskin
Genetics
Identification of Palmitoyltransferase Loss-of-Function Mutants in Arabidopsis thaliana
Adviser: Estelle Hrabak

Thomas DuBois
Genetics
The Identification of Palmitoyltransferase Mutants in Arabidopsis thaliana
Adviser: Estelle Hrabak

Thomas DuBois
Judith Hoskin
Genetics
Megan Honeywell
Biochemistry, Molecular and Cellular Biology
Characterization of Plant Palmitoyltransferase Mutants in Arabidopsis thaliana Using Genetic and Biochemical Approaches
Adviser: Estelle Hrabak
Erin Ducharme  
Marine, Estuarine and Freshwater Biology  
*The Impact of Feeding on Horseshoe Crab Activity*  
Adviser: Winsor Watson

Andraya Ehrlich  
Biology  
*Sarah Piet*  
Biochemistry, Molecular and Cellular Biology  
*Nicolette Schwab*  
Biomedical Science  
*The Influence of Extracellular-Regulated Kinases (ERKs) on Granulosa Cell Fate in the Bovine Follicle*  
Adviser: David Townson

Andraya Ehrlich  
Biology  
*Cameron Graaskamp*  
Biochemistry, Molecular and Cellular Biology  
*Investigation of a Fas decoy Receptor in the Bovine Corpus Luteum*  
Adviser: David Townson

Dina El-Tahlawy  
Amanpreet Kaur  
Biochemistry, Molecular and Cellular Biology  
*Applying the Mortalin Staining Pattern to Determine Whether Calcium-Treated SK-BR-3 Breast Cancer Cells Display Decreased Proliferation Due to the Calcium-Mediated Inactivation of the MAPK-ERK Signaling Pathway*  
Adviser: Charles Walker

Elaina Enzien  
Sustainable Agriculture and Food Systems  
*Chicken Coops and Rice Paddies: Experiencing Panama Through Global Brigades*  
Adviser: Andrew Conroy

Joshua Evans  
Biomedical Science  
*The Effects of Polybrominated Diphenyl Ether (PBDE) Dose on Hepatic Phosphoenolpyruvate carboxykinase (PEPCK) Enzyme Activity in Rats*  
Adviser: Gale Carey

Lisa Flaman  
Melissa Ryan  
Genetics  
*Nicole Petersen*  
Biochemistry, Molecular and Cellular Biology  
*Megan Thompson*  
Identification and Characterization of Genes Involved in Root Growth Under Salt Stress in Arabidopsis  
Adviser: Estelle Hrabak

Sean Fogarty  
Sustainable Agriculture and Food Systems  
*Carbon Fluxes Across Four Land Use Types in New Hampshire*  
Advisers: Lucie Lepine, Andrew Ouimette

Sotirios Georgiadi  
Biochemistry, Molecular and Cellular Biology  
*Healthcare Data Informatics: UNH Panama 2015*  
Adviser: Clyde Denis

Sarah Geromini  
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*A Revision of the Ant-like Litter Beetle Genus Custotychus (Coleoptera: Staphylinidae: Pselaphinae)*  
Adviser: Donald Chandler

Heidi Giguere  
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*The Establishment of Invasive Shrub Glossy Buckthorn (Frangula alnus) in Naturally Occurring Forest Canopy Gaps in Southern New Hampshire*  
Adviser: Thomas Lee

Akayah Glidden  
Ecogastronomy and Nutrition  
*Mary Hammar*  
*Brenna Robinson*  
*Emily Villeneuve*  
Nutrition  
*Does the UNH Campus Offer a Healthy Eating Environment?*  
Adviser: Jesse Morrell

Megan Grass  
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*Tracing The Metabolism of 13C-labeled Amino Acids and Glucose in Fungal Cultures*  
Advisers: Erik Hobbie, Andrew Ouimette

Tricia Gunther  
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*The Relationship Between Kinship and Physical Proximity in Captive Primates*  
Adviser: Leslie Curren

Tricia Gunther  
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*Thea Kristensen*  
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*Evaluating Genetic Diversity Between Populations of New England Cottontail (Sylvilagus transitionalis) and Eastern Cottontail (Sylvilagus floridanus)*  
Adviser: Adrienne Kovach

John Hastings  
Environmental Sciences  
*Assessing Methods for Generating Estimates of Leaf Area Index in Northern Temperate Forests*  
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Kaelina Lombardo  
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*Lindsay Havens*  
*Timeline of Phenotypic Development in the Asian Multicolored Lady Beetle (Harmonia axyridis)*  
Adviser: Matthew Macmanes

Crystal Hermawan  
Biomedical Science  
*Nicole Jaskiewicz*  
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Adviser: David Townson

Suzanne Hogan  
Nutrition  
*Effect of Whole Grain Consumption on Markers of Metabolic Syndrome*  
Advisers: Joanne Curran-Celentano, Jesse Morrell

Saba Ilyas  
Biomedical Science  
*Feng Xu*  
*Does the Presence of Hemolysin Genes correlate with the competitive fitness of V. parahaemolyticus*  
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<td>Jessica Manuel</td>
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Adviser: Andrew Ogden

Shannen Miller
Environmental Sciences
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Adviser: William McDowell

Erika Moretti
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Adviser: David Townson

Keshav Nepal (McNair Scholar)
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Adviser: David Townson

Jonathan Nowick
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Advisers: Erik Hobbie, Rebecca Rowe

Mary Offutt
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Adviser: Larry Harris

Amy Parker
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Adviser: Jesse Morrell

Ashton Parker
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Adviser: Andrew Conroy

Margot Popecki
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Hallett Sargent
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Stacie Powers
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Vamsi Prasad
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Shayna Purdy
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Nicole Sharpe
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Samuel Rice
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Stephanie Royka
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Adviser: Adrienne Kovach

Allison Scagel
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Kelsie Schanlaber
Wildlife and Conservation Biology
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Adviser: Matthew Tarr

Emily Sluder
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Adviser: Douglas Morris

Alexandra Soucy
Nutrition
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Adviser: Gale Carey
24th Annual COLSA Undergraduate Research Conference

Oral Presentations

**Saturday, April 25**
7:45 a.m. - 2 p.m.
MUB (Granite State Room and Theatre II)

**Bradley Anderson**
Nutrition
*Dietary Characteristics of Long-Distance Hikers: A Cross-Sectional Study of the Nutritional Needs of Long-Distance Hikers on the Appalachian Trail*
Adviser: Jesse Morrell

**Rebecca Graves**
Zoology
*Ryan Stephens*
Wildlife and Conservation Biology
*The Effects of Age, Density, and Seasonality on Molt Pattern in the Mammal Genus Peromyscus*
Adviser: Rebecca Rowe

**Tricia Gunther**
Wildlife and Conservation Biology
*The Relationship Between Kinship and Physical Proximity in Captive Primates*
Adviser: Leslie Curren

**David Wigemark**
Neuroscience and Behavior
*The Implications of Brain Oscillations on the Relationship Between Source Memory and MAO-A Gene Variations.*
Adviser: Robert Ross

**Coty Winn**
Biomedical Science
*Veteran Transition Assistance Program*
Adviser: Bryan Ness

**Michael Workman**
Biomedical Science
*Effects of Fetal Alcohol Spectrum Disorder on Distractibility and Attention*
Adviser: Jill McGaughy

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2015 UNDERGRADUATE RESEARCH CONFERENCE • 51
Peter T. Paul College of Business and Economics
Paul J. Holloway
Innovation-to-Market
Prize Competition

Championship Round

Tuesday, May 5
1 p.m. - 5:30 p.m.
Holloway Commons,
Squamscott Room

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

The UNH Undergraduate Research Conference has grown to become a signature event at the University, an annual highlight of the spring semester and one of the largest and most diverse conferences of its kind. Bringing the URC to fruition each year is the result of a collaborative, behind-the-scenes network of a great many campus community members. Here, we acknowledge these individuals and campus institutions, and thank them for helping make URC 2015 happen.

Special thanks to:
UNH Parents Association
Office of the Vice President for Student and Academic Services
Office of the Senior Vice Provost for Engagement and Academic Outreach
All Faculty Mentors
Center for International Education
College of Engineering and Physical Sciences (CEPS) Advisory Board
College of Engineering and Physical Sciences Alumni Society
College of Engineering and Physical Sciences (CEPS) Dean’s Office
College of Life Sciences and Agriculture
Hamel Center for Undergraduate Research
Institute for the Study of Earth, Oceans, and Space
Memorial Union Building Administrative Staff
New Hampshire NASA Experimental Program to Stimulate Competitive Research (EPSCoR)
New Hampshire Space Grant Consortium
Phi Beta Kappa
The University Honors Program
The University Writing Programs
UNH Advancement
UNH Communications and Public Affairs
UNH Dining Services
UNH InterOperability Laboratory
UNH Printing Services
UNH Transportation Services
URC Office Assistants: Meghan Hahr ’18 and Lynn Motanya ’18
Web and Mobile Development

Thanks to the 2015 URC Planning Committee (and all the many individuals who served on numerous subcommittees)
Eleanor Abrams, Executive Director of Engagement and Faculty Development and Professor, Department of Education
Tracey Bentley, Senior Producer, Communications and Public Affairs
Carole Berry, Co-chair, ISE Symposium, Administrative Manager II, CEPS Dean’s Office
Jennifer Borda, Co-chair, Parents Association Undergraduate Research Symposium; Associate Professor, Communication
Janet Cass, Director, Parents Association
Kent Chamberlin, Co-chair, ISE Symposium, Professor, Electrical and Computer Engineering
Summer Cook, Assistant Professor, Kinesiology
Lyne Cooper, Chair, URC Planning Committee; Coordinator, Engagement and Academic Outreach
Sarah Daigle, Paul College URC Administration
Molly Doyle, Co-chair, Parents Association Undergraduate Research Symposium; Administrative Director, Hamel Center for Undergraduate Research
Nora Draper, Assistant Professor, Communication
Felicia Fowler, Graduate Assistant/Co-Director, Graduate Research Conference (GRC)
Kate Gaudet, Assistant Director, Honors Program
Rob Haskins, Chair, Naked Arts; Associate Professor, Music Department
John Hasseldine, Chair, Paul College URC, Professor, Accounting
Tara Hicks Johnson, Co-chair, ISE Symposium; Outreach Specialist, CCOM
Myles Lynch, Graduate Assistant/Co-coordinator, Graduate Research Conference (GRC)
Robert McGann, Director, UNH Admissions
Michael Merenda, Chair, PAUL Holloway Competition; Professor, Management
Subhash Minocha, Chair, COLSA URC; Professor, Biological Sciences
Cari Moorhead, Chair, Graduate Research Conference; Associate Dean, Graduate School
Cynthia Nizzari-McClain, Co-chair, PAUL Holloway Competition; Educational Program Coordinator, PAUL College
Dan Reagan, Chair, UNHM URC; Associate Dean for Academic Affairs, UNH Manchester
Molly Tetreault, Director, Connors Writing Center, Adjunct Faculty, English Department
Paul Tsang, Faculty Director, Hamel Center for Undergraduate Research, and Professor, Molecular, Cellular and Biomedical
Ruth Varner, Co-chair, ISE Symposium; Director of Leitzel Center, Associate Professor, Earth Systems Research Center
Julie Williams, Senior Vice Provost, Engagement and Academic Outreach

2015 URC Event Chairs/Co-chairs:
Michael Annicchiario, Student Composers’ Concert
Carole Berry, Kent Chamberlin, Tara Hicks Johnson and Ruth Varner, Interdisciplinary Science & Engineering Symposium
Jennifer Borda and Molly Doyle, Parents Association Undergraduate Research Symposium
Myles Lynch and Felicia Fowler, Graduate Research Conference
Val Dusek and Willem deVries, Philosophy Department Undergraduate Research Conference
Rob Haskins, Naked Arts—Creativity Exposed!
John Hasseldine, Paul College Undergraduate Research Conference
Delia Konzett, Honors English Undergraduate Research Conference
Cathy Frierson, History Department Undergraduate Research Conference
Dan Reagan, UNHM Undergraduate Research Conference - Oral, Poster, Cinema Day, Technology Day
Michael Merenda and Cynthia Nizzari-McClain, Paul College Holloway Prize University-wide Innovation-to-Market Nelson, Albin and Championship Rounds/Competition
Subhash Minocha and Pamela Wildes, 24th Annual COLSA URC
Jennifer Moses, 2015 Senior B.A. & B.F.A. Art Exhibition & Reception and M.F.A. Thesis Exhibition
Susan Moore and David Pillemer, Psychology Department George M. Haslerud URC
Cindi Rohwer, Chemistry Department Poster Exhibition
Neil Vroman, CHHS Grimes Award Competition
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