Middlebury

SPRING STUDENT SYMPOSIUM
CELEBRATING 10 YEARS

APRIL 15, 2016
ACKNOWLEDGEMENTS

Middlebury’s Spring Student Symposium is truly a communitywide effort, and there are many individuals to thank.

The Center for Teaching, Learning, and Research (CTLR) faculty and staff provided support and coordination for the symposium, especially JoAnn Brewer and her student staff. With Shel Sax’s oversight, the Middlebury College Library and the Information Technology Services staff dedicated many essential hours to the symposium. We would especially like to thank Mike Roy and Jim Stuart for making their staff members available to support the event: Lisa Terrier and her distribution team, including Nate Burt and Brian Foley; Dan Frostman and the circulation staff; Carrie Macfarlane and the library liaisons; Billy Sneed and Jeff Lahaie of the central systems and network group; Joe Durante and the HelpDesk staff; Petar Mitrevski, Mack Pauly, David Wright, and the media services staff; and the academic technology group including Bill Koulopoulos, Joe Antonioli, Heather Stafford, Daniel Houghton, and the digital media tutors.

Michael Sheridan, Karen Guttentag, AJ Vasiliou, Marybeth Nevins, and Wendy Shook served on the Spring Student Symposium Sessions Committee. Claire Adams was the liaison for the arts. Thanks to students Tatyana Parks ’18 and Katherine Morillo ’18, who provided fresh perspectives and hours of assistance. Chad Conant, Valerie Costello, Paul Dahm, Stephen Diehl, Pam Fogg, Blair Kloman, Pam McGuire, and Ben Savard ’14 helped us create images, get the word out, and document the event. Yonna McShane, Mack Roark, Liam Knox ’17, and Oratory Now student coaches assisted students in preparing their talks and posters by providing excellent learning materials and workshops. Ian Martin, Beth Connor, Debra Mallott, and their catering team provided an outstanding menu. Amy Foote and Lisa Ayers supported the symposium’s logistical needs. Cathy Ekstrom and Chelsea Griggs facilitated arrangements within Bicentennial Hall and Johnson Memorial Building respectively. We are grateful to all the people who served as moderators of presentation sessions. We also thank Middlebury College faculty, whose mentorship and guidance have led to the student accomplishments we showcase today. Finally, we thank all of our student presenters for sharing their expertise and enthusiasm with our community, and we congratulate them on their accomplishments.

We also wish to acknowledge the internal and external funding sources without which many of today’s research projects and the symposium itself would not have been possible. In particular we wish to acknowledge the Norbert K. Vaughn ’10 Memorial Fund, established in 2008 to honor Norbert’s memory and support the annual symposium, an event that exemplifies his approach to scholarly inquiry.

The Spring Student Symposium Committee
For complete schedules and abstracts for the 10th annual symposium, visit go.middlebury.edu/symmobile or go.middlebury.edu/sym
Join us in celebrating the 10th annual Spring Student Symposium!

The symposium is a daylong event in McCordell Bicentennial Hall, with open exhibits in Johnson Memorial Building. Classes have been suspended for the day in order to allow all members of the Middlebury College community to join in this celebration of student research and creative achievement. What began as an afternoon of poster and oral sessions with 60 student presenters has grown into an expansive program of academic and creative works from over 300 students. Although the symposium has changed over the years, it remains at its heart a multidisciplinary celebration of undergraduate work at Middlebury College.

The goal of a liberal arts education is to cultivate creative, independent learners. This symposium speaks to Middlebury’s pursuit of that goal. And so consider this program your guide into a rich world of inquiry and expression. Take a moment to plan the course of your day, explore the work of Middlebury students, and broaden your understanding of subjects extending through the arts, the humanities, and the sciences. Today’s symposium reflects Middlebury’s commitment to providing all students with hands-on undergraduate research and experiential learning opportunities. We applaud the accomplishments of our students, the mentoring and guidance of their sponsors, and the support of the Middlebury College community, and we thank you for joining us to celebrate them.

The 2016 Spring Student Symposium Planning Committee

Lisa Gates, Associate Dean for Fellowships and Research, Co-Chair

Greg Vitercik, Professor of Music, Co-Chair

Hang Du, Associate Professor of Chinese

Karen Guttentag, Associate Dean for Judicial Affairs and Student Life

Marybeth Nevins, Assistant Professor of Sociology and Anthropology

Colleen Norden, Administrative Coordinator for Undergraduate Research and Fellowships

Jim Ralph, Dean for Faculty Development and Research, Rehnquist Professor of American History and Culture

Shel Sax, Director of Educational Technology

Michael Sheridan, Associate Professor of Anthropology

AnGayle (AJ) Vasiliov, Assistant Professor of Chemistry

Wendy Shook, Science Data Librarian

Please be aware the academic projects presented are generally unpublished works in progress or preliminary research and are not intended to be referenced or cited without consent of all parties involved.
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Welcome to the 2016 Spring Student Symposium!

Welcome to Middlebury College’s 10th annual Spring Student Symposium. Each April, for the past decade, students from first-years to seniors, across all academic disciplines, have participated in this symposium. In presentations, poster sessions, performances, panels, and readings, they have shared their intellectual passions and discovered what inspires their fellow classmates.

Today is a day for us to admire, appreciate, and celebrate both independence and collaboration. The work showcased here today is borne of original thought and independent inquiry and months of singular focus and effort. And yet, it also bears the hallmarks of partnerships with professors who worked alongside students in their creative and scholarly pursuits, providing instruction, mentorship and guidance, and, most especially, encouraging curiosity.

A curious moment that was allowed to grow was the beginning of each of today’s presentations. That curiosity about an unexplored idea then sparked inquiry, which then fueled exploration. The result of that inquiry might not always be what was expected at the beginning. The path might not have been smooth. There may have been stops and starts and detours and a few dead ends. But that is part of the power and beauty of the exploration—the discovery of the unknown, the disproving of assumptions, the triumph of truth, the joy of the unexpected, the satisfaction of work well done.

I encourage all of the students—whose focus and hard work brought you here today—to take pride in embracing your curiosity and all that your independent explorations and your collaborations have made possible. We are honored to share today with you.

Sincerely,

[Signature]

President Laurie L. Patton
PROGRAM SCHEDULE OVERVIEW

Thursday

7:30 p.m.
Evening Performance
Hepburn Zoo

Friday

8:30–9:00 a.m.
Presenter Check-In and Refreshments
McCardell Bicentennial Great Hall

9:00–9:15 a.m.
Welcome
McCardell Bicentennial Hall
Laurie Patton, President of Middlebury College

9:15–10:30 a.m.
Session I: Oral Presentations
McCardell Bicentennial Hall 104, 216, 219, 220, 303, 311, 338, 403, 411, 438

10:00 a.m.–4:00 p.m.
Art Exhibits
Johnson Mezzanine and Pit

10:30–11:15 a.m.
Poster Presentations: Group 1 and Refreshments
McCardell Bicentennial Great Hall

11:15 a.m.–12:30 p.m.
Session II: Oral Presentations
McCardell Bicentennial Hall 104, 216, 219, 220, 303, 311, 338, 403, 411

12:30–1:30 p.m.
Lunch for Presenters, Sponsors, and Moderators
Atwater Dining Hall
Lunch in Atwater available from 11:30 a.m.–2:00 p.m.
Lunch will be served for all others at regular hours in Proctor and Ross Dining Halls.

1:30–2:45 p.m.
Session III: Oral Presentations
McCardell Bicentennial Hall 104, 216, 219, 220, 303, 311, 338, 403, 411

2:45–3:30 p.m.
Poster Presentations: Group 2 and Refreshments
McCardell Bicentennial Great Hall

3:30–4:45 p.m.
Session IV: Oral Presentations
McCardell Bicentennial Hall 216, 219, 220, 303, 311, 338, 403, 411

4:45–5:30 p.m.
Closing Reception
McCardell Bicentennial Great Hall

7:30 and 10:00 p.m.
Evening Performances
Hepburn Zoo

8:30–10:00 p.m.
Evening Event
McCardell Bicentennial Hall Observatory
Thursday

7:30 p.m.
Thursday Evening Performance

The Pitchfork Disney
Hepburn Zoo (ticketed event)
Company: Iram Asghar ’18, Alexander Burnett ’16, Kristin Corbett ’16.5, Daniel Fulham ’18, Joseph Haggerty ’19, Cole Merrell ’19, Taylor Rossini ’19, Madeleine Russell ’19, Emily Sarich ’16, Sabrina Wang ’19

Friday

8:30–9:00 a.m.
Presenter Check-In and Refreshments
McCardell Bicentennial Great Hall

9:00–9:15 a.m.
Welcome
McCardell Bicentennial Great Hall
Laurie Patton, President of Middlebury College

9:15–10:30 a.m.
Session I: Oral Presentations

Frameworking: Space and Environment
Moderated by Mez Baker-Medard, Assistant Professor of Environmental Studies
McCardell Bicentennial Hall 104

9:15 a.m. Learning GIS and Cartography in the Programming Age: A Framework for a Critical, Code-Based Geospatial Education—Parker Ziegler ’16; Sponsor: Joseph Holler, Geography

9:35 a.m. Spaces of Contention: Examining Urban and Rural Responses to the Nicaraguan Grand Canal—Andres Chamorro ’16; Sponsor: Guntram Herb, Geography

9:55 a.m. Lessons from Don Gerardo: Not All That Shines Is Gold—Esteban Arenas-Pino ’18, Dylan Arthaud ’17, Laura Bourrel, Louise Guibal-Engler, Laura Messner, Timothy Murphy ’19, Iurii Puchkov, Julie Senat, Hee Yeong Son ’18, Eamon Woods ’19; Sponsor: Mez Baker-Medard, Environmental Studies

Through the Fire
Moderated by Scotty Hardwig, Visiting Assistant Professor of Dance
McCardell Bicentennial Hall 216

9:15 a.m. Through the Fire—Celeste (Sky Williams) Allen ’16, Otto Pierce ’16; Sponsor: Christal Brown, Dance

What Gets “Coded” into Our Language?
Moderated by Shawna Shapiro, Assistant Professor of Writing and Linguistics
McCardell Bicentennial Hall 216

9:55 a.m. What Gets “Coded” into Our Language? Understanding Middlebury through Discourse Analysis—Hannah Sobel ’17.5, Haruna Takeda ’18; Sponsor: Shawna Shapiro, Writing Program
Abilities, Mobilities, Possibilities: Movement and Change
Moderated by Claudia Cooper, Visiting Assistant Professor of
Education Studies, English and American Literatures
McCardell Bicentennial Hall 219

9:15 a.m. Low-Income Housing in China: Recent Developments and Issues—Hyeon-Seok (Tom) Yu ’16; Sponsor: Will Pyle, Economics

9:35 a.m. Perceptions of Disability in Ethiopian Children—Georgia Grace Edwards ’18; Sponsor: Claudia Cooper, Education Studies

9:55 a.m. Climate Change-Induced Migration in the Mekong Delta—Katie Chamberlain ’16; Sponsor: Joseph Holler, Geography

10:15 a.m. In Our Twenties: Exploring Memory, Mobility, and Independence through Verbatim Theatre—Celia Watson ’17; Sponsor: Dana Yeaton, Theatre

Relativity: Family Relationships and Social Change
Moderated by Christopher McGrory Klyza, Professor of Public Policy, Political Science, and Environmental Studies
McCardell Bicentennial Hall 220

9:15 a.m. My Brother? My Boyfriend?: Use of Korean Kinship Terms for Nonfamilial Relationships—Cynthia Park ’16; Sponsor: Shawna Shapiro, Writing Program

9:35 a.m. By the Bay—Naomi Eisenberg ’18; Sponsor: MaryEllen Bertolini, Center for Teaching, Learning, and Research


10:15 a.m. Rethinking the Gender Gap: Gender and Firm Production—Halle Gustafson ’16; Sponsor: Peter Matthews, Economics

Intertwinings: Policy, Inclusivity, and Identity
Moderated by Susan Burch, Professor of American Studies
McCardell Bicentennial Hall 303

9:15 a.m. Blood, Lineage, and Culture: Who is Really “Indian?”—Anna Kelly ’16; Sponsor: Rachael Joo, American Studies

9:35 a.m. Reduced to a Score Sheet: Objectification of Disabled People in Social Security Policies—Chan Woo Kim ’16; Sponsor: Susan Burch, American Studies

9:55 a.m. Achieving Poverty Alleviation in Jordan through the Islamic Institution of Zakat—Daniel Pena ’16; Sponsor: Sebnem Gumuscu, Political Science

10:15 a.m. Stars of David: A Cultural History of the American-Israeli Relationship—Rachel Copulsky ’16; Sponsor: Shalom Goldman, Religion

This Is Going to be Epic: Identifying Order and Chaos
Moderated by Marc Witkin, Professor of Classics
McCardell Bicentennial Hall 311

9:15 a.m. Tweeting the Revolution: An Analysis of Syrian Social Media—Ellen Bevier ’16; Sponsor: Samuel Liebhaber, Arabic

9:35 a.m. Fear, Honor, Advantage: The Rise of the Athenian Empire—Josh Berlowitz ’16; Sponsor: Jane Chaplin, Classics


10:15 a.m. The Choice of Achilles: An Epyllionic Exploration—Erika Sloan ’16; Sponsor: Maria Hatjigeorgiou, Religion

Managing Fertility and Reproduction
Moderated by Kelly Campen, Postdoctoral Fellow in Biology
McCardell Bicentennial Hall 338


9:35 a.m. Investigating Endocrine Disruption in Animal Models Using a Novel Indicator—Hannah Geldermann ’16, Betty Kobia ’16; Sponsor: Molly Costanza-Robinson, Chemistry and Biochemistry

9:55 a.m. Les Vraies Femmes Camerounaises: Healthcare-Seeking Negotiations of Motherhood among Women in Yaoundé, Cameroon—Anna Chamby ’16; Sponsor: Michael Sheridan, Sociology and Anthropology

10:15 a.m. Exposure to Bisphenol-A Affects Bovine Oocyte Spindle Morphology and Chromosome Alignment—Katherine Kucharczyk ’16; Sponsors: Kelly Campen and Catherine Combelles, Biology
Christianity and Traditionalism in African Contexts
Moderated by Ellie Gebarowski-Shafer,
Assistant Professor of Religion
McCardell Bicentennial Hall 403

9:15 a.m. Billy Graham and the Rise of Evangelical Christianity in South Africa—Andrew Headrick ’16
9:35 a.m. Understanding African Traditional Religion—Innocent Mpoki ’18
9:55 a.m. Christianity in Ethiopia Then and Now—Amanuel Afework ’17
10:15 a.m. Praise and Worship Music in African Christianity—Armel Nibasumba ’16

Sponsor: Ellie Gebarowski-Shafer, Religion

Formations and Reflections of Social Class
Moderated by Tom Van Order, Associate Professor of Italian
McCardell Bicentennial Hall 411

9:15 a.m. Ticket to Ride: Social Geography and Railroads in 19th-Century London—Brian Rich ’17; Sponsor: Rebecca Bennette, History
9:35 a.m. Drinking, Drugs, and Depression: Economic Mobility and White Middle-Aged Mortality—Jana Parsons ’16; Sponsor: Peter Matthews, Economics
9:55 a.m. Fields of Difference: Usage and Perception of Urban Park Spaces in New York City—Clair Beltran ’16; Sponsor: Pieter Broucke, History and Architecture
10:15 a.m. Morality of Neuroscientific Reductionism: Predicting Problem Populations?—Reshma Gogineni ’16; Sponsor: Lorraine Besser, Philosophy

Sponsor: Ellie Gebarowski-Shafer, Religion

Reimagining the Past
Moderated by Stacy Reardon,
Research and Instruction Librarian
McCardell Bicentennial Hall 438

9:15 a.m. Museum as Site of Mourning: Commemorating Forgotten Slavery in Qatar—Majid Al-Remaihi ’18; Sponsor: Alvin Henry, English and American Literatures
9:35 a.m. The Power of the Artist: Modern Reimaginings of Ancient Mythologies—April Poole ’18; Sponsor: Maria Hatjigeorgiou, Religion
9:55 a.m. Using Lake Sediment Records to Reconstruct Postglacial Dust Delivery to High-Elevation Lakes in the Uinta Mountains, Utah—Ryan McElroy ’16.5, Sam O’Keefe ’16.5; Sponsor: Jeff Munroe, Geology
10:15 a.m. A Linguistic Revolution: The Role of Arabic in Nation-Building in the Middle East and North Africa—Aleck Silva-Pinto ’16; Sponsor: Sebnem Gumuscu, Political Science

10:00 a.m.–4:00 p.m.
Art Exhibits
Johnson Memorial Building

In the Pit: Senior Independent Studio Class
Sponsor: Sanford Mirling, Studio Art
Works by Rose Broner ’16, Yvonne Chan ’16, Andrew Goulet ’16, Adam Kaminsky ’16, Kristin Knutzen ’16, Kathleen Leib ’16, Margot Masinter ’17, Katrina Moore ’17, Kristina Pallotta ’16, Marissa Perez ’16.5, Kate Robinson ’16, Najwa Stanford ’16, Weston Uram ’18

On the Mezzanine: ART 0157 Foundation Drawing
Sponsor: Jim Butler and Sanford Mirling, Studio Art
Poster Presentations: Group 1 and Refreshments
McCardell Bicentennial Great Hall

(Please note that Poster Presentations: Group 2 will take place from 2:45–3:30 p.m.)

1. My Emoji—Weston Uram ’18; Sponsor: Sanford Mirling, Studio Art

2. Effects of an Ependymin Mimetic on Learning and Memory on a Transgenic Mouse Model of Alzheimer’s Disease—Olivia Artaiz ’16, Eliza Ferrari ’16; Sponsor: Mark Spritzer, Biology

3. Soda or Rotisserie Chicken? An Evaluation of the Food Stamps Program—Kevin Dong ’16; Sponsor: Michelle McCauley, Psychology

4. Geochemical and Hydrochemical Analysis of the Bedrock Aquifer in Monkton, Vermont—Amanda Fishbin ’16; Sponsor: Peter Ryan, Geology

5. Water Street Transit Center: Middlebury—Michael Garel-Martorana ’16; Sponsors: Maria Silvina Lopez Barrera and John McLeod, History of Art and Architecture

6. The Effect of Streaming Services on Music Piracy—Jon Broome ’16; Sponsor: Caitlin Myers, Economics

7. Synthesis of Arsenic-Bearing Magnesium Carbonate and Implications for Arsenic in Groundwater—Sam Cowan ’16, Patrick Scott ’16, Perri Silverhart ’16.5; Sponsor: Peter Ryan, Geology

8. FLT5 Signaling in Metastasis-Associated Macrophages Activates an Inflammatory Signature that Promotes Breast Cancer Metastasis—Tianfang He ’16; Sponsor: Roger Sandwick, Chemistry and Biochemistry

9. The (Post-)Apartheid City: Applying Hoyt’s Sector Theory to Cape Town, South Africa—Oliver Oglesby ’18; Sponsor: Joseph Holler, Geography

10. Dose-Dependent Effects of Testosterone on Spatial Memory in Adult Male Rats—Valerie Braddock ’16; Sponsor: Mark Spritzer, Biology

11. The Middlebury Transit Station—Maggie Cochrane ’16; Sponsor: John McLeod, History of Art and Architecture


13. Geochemistry and Petrology of the Cuttingsville Igneous Suite—Noah Stone ’16.5; Sponsor: Ray Coish, Geology

14. Do Astrocytes Play a Role in Mediating Morphine Effects in Infants?—Emily Goins ’17; Sponsor: Glen Ernst, Biology

15. Assessment of the Effects of Bisphenol A on Oxidative Stress in Bovine Granulosa Cells—Madeline Schneider ’16.5; Sponsors: Kelly Campen and Catherine Combelles, Biology


18. On an Average Day: A Scenic Design—Ben Rose ’17.5; Sponsor: Mark Evancho, Theatre

19. Magnetic Circular Dichroism Study of Dimetallic Hydrolase Enzymes—Jacob Dombroski ’17, Waleed Helweh ’17, Emma Office ’17; Sponsor: James Larrabee, Chemistry and Biochemistry

20. Creating a Landscape-Scale Model of Soil Evolution on the Pacific Coast of Costa Rica—Maev Grady ’16.5; Sponsor: Peter Ryan, Geology

21. Constructing a Simple and Versatile Optical Tweezer—Larson Lovdal ’16.5; Sponsor: Anne Goodsell, Physics

22. Late Pleistocene Chronology of Lake Terreton, Southeastern Idaho—Jack Steele ’16; Sponsor: William Amidon, Geology

23. Comparative Analysis of Cas9 Activators across Multiple Species—Sabina Haque ’18; Sponsor: Glen Ernst, Biology

24. The Peasant Paradox: Narratives of Cooperative Labor, Corvée, and Collective Violence in Rwanda and Haiti—Ben Harris ’16; Sponsor: Kathryn Morse, History

25. A Design for Meig’s Point Nature Center at Hammonasset Beach—Gioia Pappalardo ’16; Sponsor: Erin Sassin, History of Art and Architecture


27. Effect of Testosterone on Spatial Memory in Aged Male Rats—Eliza Jaeger ’17, John Lower ’16; Sponsor: Mark Spritzer, Biology

54. Capturing Nature: Middlebury’s Treasures (see details under Poster Session 2)
11:15 a.m.–12:30 p.m.
Session II: Oral Presentations

**Psychoanalysis and Aesthetics in the Hispanic World**
*Moderated by Luis Castaneda, Assistant Professor of Spanish*
McCardell Bicentennial Hall 104

11:15 a.m.  Psychoanalysis and Aesthetics in the Hispanic World—Zoe Carey '16, John Cheesman '16, Elle Gilbert '16, Audrey Goettl '16, J. J. Moser '16.5, Julia Trencher '18, Marie Vasitas '18; Sponsor: Luis Castaneda, Spanish and Portuguese

**Looking in the Mirror: How Bodies Reflect Society**
*Moderated by Catharine Wright, Senior Lecturer of Writing*
McCardell Bicentennial Hall 216

11:15 a.m.  Breaking Skin and Silence: Self-Injury and Female Voice—Elinor Itin '16; Sponsor: Catharine Wright, Writing Program
11:35 a.m.  The Hashemite Family’s Vision, Disability Policies, and Jordanians with Disabilities—Jinseul Jun ’17; Sponsors: Susan Burch, American Studies and Sebnem Gumuscu, Political Science
11:55 a.m.  The Right Choice—Give a Girl a Choice: Effects of Safe Spaces on Self-Esteem in Girls in Tanzania—Sara Swett ’17; Sponsor: Nadia Horning, Political Science
12:15 p.m.  Too Thin or Not Thin Enough? Complications in Female Cross-Country Runners’ Narratives on Diet and Body Image—Nicolette Amber ’16; Sponsor: Svea Closser, Sociology and Anthropology

**Navigating Intersectionality**
*Moderated by Ryan Clement, Data Services Librarian*
McCardell Bicentennial Hall 219

11:15 a.m.  Boundaries, Bridges, Bodies: Afro-Latinidad and the American Color Line—Maya Doig-Acuna ‘16.5; Sponsor: Rachael Joo, American Studies
11:35 a.m.  Reconciling Faith and Culture: Japanese Protestants after the 2011 Triple Disaster—Timothy Fraser ’16; Sponsors: Elizabeth Morrison and Larry Yarbrough, Religion
11:55 a.m.  A Country Divided, an Identity Torn: What Does It Mean to Be Korean?—Jeeyun Eunice Kim ’17; Sponsor: Susan Burch, American Studies

12:15 p.m.  Ethnic at Home, Policed in the Streets: Experiences of Policing and Racial Identity amongst Immigrant Men of Color—Debanjan Roychoudhury ’16; Sponsor: Rebecca Tiger, Sociology and Anthropology

**What Works and What Doesn’t: Public Policy Innovations**
*Moderated by Josh Rodd, Visiting Instructor in Geography*
McCardell Bicentennial Hall 220

11:15 a.m.  Same Diet, Different Produce: Gardening Programs and Childhood Consumption in Rural Zambia—Adam Rosenberg ’16; Sponsor: John Maluccio, Economics
11:35 a.m.  Strengthening Healthcare Systems in Resource-Poor Areas: Performance-Based Financing in Burundi and Rwanda—Armel Nibasumba ’16; Sponsor: Joshua Rodd, Geography
11:55 a.m.  Unequal Opportunities: Education Funding Policy and the Achievement Gap—Yasmine Fernald ’16; Sponsor: Bertram Johnson, Political Science
12:15 p.m.  The Moral Injustice and Economic Folly of Mass Incarceration: A Look at Criminal Justice in Baltimore, Maryland—Eleanor Eagan ’18; Sponsor: James Calvin Davis, Religion

**Satisfaction: Pathways to Well-Being and Empowerment**
*Moderated by Marcia Collaer, Professor of Psychology and Neuroscience*
McCardell Bicentennial Hall 303

11:15 a.m.  Capoeira: The Relationship of an Afro-Brazilian Movement Art to State Anxiety, State Self-Efficacy, and Prosocial Behavior Tendencies—Brennan Delattre ’16; Sponsor: Marcia Collaer, Psychology
11:35 a.m.  Impact of Need Satisfaction on Collegiate Athletes’ Motivation, Performance, Commitment, and Well-Being—Lauren Henry ’16; Sponsor: Michelle McCauley, Psychology
11:55 a.m.  Leadership and Women Empowerment in Neo-Pentecostal African Churches—Ratang Sedimo ‘18.5; Sponsor: Ellie Gebarowski-Shafer, Religion
12:15 p.m.  Dreaming Away Society’s Expectations: A Translation and Analysis of “Yingtao qingyi”—Austin Nielsen ’16; Sponsor: Carrie Wiebe, Chinese
Symposium on Ancient Political Philosophy
Moderated by Murray Dry, Professor of Political Science
McCardell Bicentennial Hall 311
11:15 a.m. Symposium on Ancient Political Philosophy—Nico Degolia ’16, John Loeb ’16, Ian McInerney ’16.5, Karlo Skarica ’17, Andrew Smith ’17, Sam Tauke ’16, Wentao Zhai ’17; Sponsor: Murray Dry, Political Science

Mythic Proportions: Reexamining Representation
Moderated by Brett Millier, Professor of American Literature
McCardell Bicentennial Hall 338
11:15 a.m. Representations of “Mental Illness” and Madness in Icarus Project Books—Stuart Warren ’17; Sponsor: Susan Burch, American Studies
11:35 a.m. Nietzsche, Platonic Myth and Poetry—Leo Trotz-Liboff ’17; Sponsor: Jane Chaplin, Classics
11:55 a.m. The Ecology of Wallace Stevens: A Modernist and His Landscape—Taylor Scott Berkley ’16.5; Sponsor: Brett Millier, English and American Literatures
12:15 p.m. Practical Patrons: Reexamining the Art of the Mongols—Kathryn Kim ’16; Sponsor: Sarah Laursen, History of Art and Architecture

Cell Signaling: Communication at the Microscopic Level
Moderated by Lesley-Ann Giddings, Assistant Professor of Chemistry and Biochemistry
McCardell Bicentennial Hall 403
11:15 a.m. Mechanisms of Biofilm Formation in B. subtilis and P. aeruginosa—Joseph Schindler ‘18; Sponsor: Roger Sandwick, Chemistry and Biochemistry
11:35 a.m. Characterizing the Role of Complement in the Caspase-11-Dependent Inflammasome—Patrick Monette ’17; Sponsor: Grace Spatafora, Biology
11:55 a.m. (Brain) Food for Thought: How Does Energetic Availability Change in Response to a Decrease in Synaptic Strength?—Annie Ly ’16, Lisa Wooldridge ’16; Sponsor: Michael Dash, Psychology

The Subtleties of Sexism: Perception and Bias
Moderated by Anson Koch-Rein, Visiting Assistant Professor of Gender, Sexuality, and Feminist Studies
McCardell Bicentennial Hall 411
11:35 a.m. Rabid Feminists and Masculine Doctors: Covert Gender Bias in a Lexicographic Corpus—Angeline Rodriguez ’16; Sponsor: Shawna Shapiro, Writing Program
11:55 a.m. Gender Biases in Elections: Identify Voters’ Perceptions of Female Candidates—Xiaoli Jin ’19; Sponsor: Scott Guenther, Political Science
12:15 p.m. In the Shoes of Bulgarian Women: Experiences with Sexism and the Narrative of Progress—Maggie Nazer ’17; Sponsor: Claudia Cooper, Education Studies

12:30–1:30 p.m.
Lunch for Presenters, Sponsors, and Moderators
Special lunch in Atwater available from 11:30 a.m.–2:00 p.m.
Lunch will be served for all others at regular hours in Proctor and Ross Dining Halls.
1:30–2:45 p.m.
Session III: Oral Presentations

Sight and Sound
Moderated by Christian Keathley, Associate Professor of Film and Media Culture
McCardell Bicentennial Hall 104

1:30 p.m.  Film Shorts: Real—August Laska ’17.5; Sponsor: David Miranda Hardy, Film and Media Culture, Black Girl Magic—Sierra Jackson ’18; Sponsor: David Miranda Hardy, Film and Media Culture, Life’s Surprising—Kirk Horton ’17; Sponsor: Christian Keathley, Film and Media Culture, NYC: A Poetic Documentary—Eric Benoit ’16, Chad Kahn ’16; Sponsor: Christian Keathley, Film and Media Culture, Next Caller—Eric Benoit ’16, Danilo Herrera ’18, Sofy Maia ’16, Ali Salem ’16; Sponsors: Christian Keathley and Ioana Uricaru, Film and Media Culture

Hands-On: Manipulating Data into Decision
Moderated by Tanya Byker, Assistant Professor of Economics
McCardell Bicentennial Hall 216

1:30 p.m.  How Can Financial Decisions Be Manipulated?—Henry Linehan ’16; Sponsors: Tanya Byker and Peter Matthews, Economics
1:50 p.m.  All Memes Are Created Equal: The Influence of Social Media on Political Participation—Brandi Fullwood ’17; Sponsor: Bertram Johnson, Political Science
2:10 p.m.  The Trump Effect: Provocative Statements’ Impacts on Voter Psychology—Margaret Graham ’18, Nora Lenhard ’18, Hazel Millard ’18, Andrew Plotch ’18.5; Sponsor: Bertram Johnson, Political Science

2:10 p.m.  A Political Economy of Sovereign Debt: Perspectives on Alternative Paradigms—Meghan Colwell ’16; Sponsor: Sarah Stroup, Political Science
2:30 p.m.  Bette, AKA Mammy, Big Momma, Madea, and Others Alike: Constructions of an American Stereotype—Tamir Williams ’16; Sponsor: J Finley, American Studies

Narrative Control and Controlling Narratives
Moderated by Michael Sheridan, Associate Professor of Anthropology
McCardell Bicentennial Hall 220

1:30 p.m.  Visualizing Sicily: Rethinking the Approach to the Royal Commissions of Roger II—Dylan Gilbert ’16; Sponsor: Cynthia Packert, History of Art and Architecture
1:50 p.m.  Restarting the Sendai Reactor: Japanese Civic Activism after Fukushima—Timothy Fraser ’16; Sponsor: Linda White, Japanese Studies
2:10 p.m.  Online Public Discourse on Foreign Policy: Assessing Quality of Discourse in Digital Deliberation—Shelby Friedman ’16; Sponsor: Orion Lewis, Political Science
2:30 p.m.  Media Construction and Narratives of the 2015 Nepal Earthquakes—Tara Seibold ’16; Sponsor: Michael Sheridan, Sociology and Anthropology

Religious Identities: Reclamation, Reflection, and Rejection
Moderated by Ata Anzali, Assistant Professor of Religion
McCardell Bicentennial Hall 303

1:30 p.m.  Feminine Power in Claiming Christianity as a Community of Women in Toni Morrison’s Song of Solomon, Paradise, and A Mercy—Robin Loewald ’16; Sponsor: Brett Millier, English and American Literatures
2:10 p.m.  Imagining Islam: 19th-Century Evangelical American Missionaries’ Accounts of Islam—Kelsey Follansbee ’16.5; Sponsor: Ata Anzali, Religion
2:30 p.m.  The Catholic Church: Adapt or Wither—Andrew Smith ’19; Sponsor: Ellie Gebarowski-Shafer, Religion
Space Becoming Place  
**Moderated by Linus Owens, Associate Professor of Sociology**  
McCardell Bicentennial Hall 311

1:30 p.m.  Sorptive Behavior of Hexadecyltrimethylammonium-Modified Montmorillonite: Elucidating Effects of Interlayer Chemistry and Contaminant Structure—Kae Fink ’16.5, Rachael Morris ’17; Sponsor: Molly Costanza-Robinson, Chemistry and Biochemistry

1:50 p.m.  A Proposal for Bicentennial Hall Park—Morgan Raith ’16.5, Sage Taber ’16.5; Sponsor: Pieter Broucke, History of Art and Architecture

2:10 p.m.  Montana Wolves: A Literary and Conceptual Exploration of Space and the Wild—Linda Waller ’16; Sponsor: Brett Millier, English and American Literatures

2:30 p.m.  A Spatial Politics of Public Space: Four Ethnographies in Havana—Lee Schlenker ’16; Sponsor: Linus Owens, Sociology and Anthropology

Oratory Now  
**Moderated by Dana Yeaton, Visiting Assistant Professor of Theatre**  
McCardell Bicentennial Hall 338

1:30 p.m.  How Angst Can Set You Free—Mateo Games ’19
What Do You Believe? The Next Generation of American Politics—Alexander Khan ’17
Scars and Jigsaw Pieces—Tabitha Mueller ’18
Why Can’t I Be Both?—Melanie Rivera ’19
The Magnitude of Small Talk—Linley Shaw ’17
Sponsor: Dana Yeaton, Theatre

Isolation and Its Consequences  
**Moderated by Alex Draper, Associate Professor of Theatre**  
McCardell Bicentennial Hall 403

1:30 p.m.  Caligula: A Victim of His Childhood—Caius Mergy ’17; Sponsor: Randall Ganiban, Classics

1:50 p.m.  Burmese Way to Socialism: A Political Blunder or an Expensive Ticket for Peace?—Khine Thant Su ’16; Sponsor: Maggie Clinton, History

2:10 p.m.  Akbar’s Sacred Kingship: Religious Influences and Their Visual Manifestations in the Akbarnama—Alex Gimbel ’16.5; Sponsor: Cynthia Packert, History of Art and Architecture

Picking the Right Tool: Illuminating and Understanding  
**Moderated by Pat Manley, Professor of Geology**  
McCardell Bicentennial Hall 411

1:30 p.m.  Estimating Temporal Redistribution of Water in Upper Stratigraphy of the Juneau Icefield, Alaska—Joel Wilner ’18; Sponsor: Pat Manley, Geology

1:50 p.m.  Analysis of Groundwater Quality in a Fractured Rock Aquifer Influenced by Black Shales in the Central Champlain Valley, Western Vermont—Sam Cowan ’16; Sponsor: Peter Ryan, Geology

2:10 p.m.  Two-Photon Microscopy: Imaging Tissue with Lasers—Jacob Epstein ’16; Sponsor: Michael Durst, Physics

2:30 p.m.  The Physics of Music: Fourier Transforms and Musical Chord Identification—William Goodman ’16; Sponsor: Noah Graham, Physics
2:45–3:30 p.m.
Poster Presentations:
Group 2 and Refreshments
McCardell Bicentennial Great Hall


29. Utilizing Landslides on Lake Champlain as Paleoseismic and Paleohazard Indicators—Perri Silverhart ’16.5; Sponsors: Pat Manley and Tom Manley, Geology

30. Hubbub—Clair Beltran ’16; Sponsor: John McLeod, History of Art and Architecture

31. Orthorhombic Series—Amanda Fishbin ’16; Sponsor: Germaine Gatewood, Studio Art

32. The Umbrella Hill Formation: A Detrital Zircon Study—Patrick Scott ’16; Sponsor: Ray Coish, Geology

33. The Synthesis of Soluble Poly (p-Phenylene Ethynylene) Polymers as Molecular Wires—Nicholas Blelloch ’16; Sponsor: Jeff Byers, Chemistry and Biochemistry

34. The Sendero Pacífico: A Long Distance Hiking Trail and a New Form of Rural Tourism—Caroline Colan ’17.5; Sponsor: William Hegman, Geography

35. Managing the Neuropsychiatric Symptoms of Dementia—Abigail Belser ’16, Valerie Braddock ’16; Sponsor: Tom Root, Biology

36. Oasis Transportation Hub—Brandon Gell ’16; Sponsor: John McLeod, History of Art and Architecture

37. Examining the Impact of Male Circumcision Supply on Women’s Sexual Health Behaviors in Zambia—Helena Hlavaty ’16; Sponsor: John Maluccio, Economics

38. Regis FILLbin: A Crossword Puzzle Solver—Sam Hage ’16; Sponsor: Matthew Dickerson, Computer Science

39. Petrology and Geochemistry of Metamorphosed Cambrian-Ordovician Volcanic Rocks of the St. Croix Belt, Western Penobscot Bay, Maine—Will Burke ’16.5; Sponsors: David West and Ray Coish, Geology

40. EEG-Based Brain-Computer Interface for Transcription of Internally Generated Pitch—Harrison Hsiang ’17; Sponsor: Michael Dash, Psychology


42. Preserving Middlebury College’s Antique Clothing Collection—Elisabeth Harmor ’16; Sponsor: Mira Veikley, Theatre

43. An Electron Named Flo—Katrina Moore ’17; Sponsor: Germaine Gatewood, Studio Art

44. New Selection Criteria for Red and Obscured Quasars in Stripe 82—Milena Crnogorcevic ’17; Sponsor: Eilat Glikman, Physics

45. X-ray Analysis of Four Low-Redshift QSOs—Larson Lovdal, ’16.5; Sponsor: Eilat Glikman, Physics

46. Middlebury Depot—Sage Taber ’16.5; Sponsor: John McLeod, History of Art and Architecture

47. Oospt Gene Plays an Essential Role in the Maintenance of the Primordial Follicle Reserve in the Mouse Ovary—Margaret Weber ’18; Sponsor: Roger Sandwick, Chemistry and Biochemistry

48. Analysis of Uranium Speciation in Phosphorites: Insights from Sequential Chemical Extraction and Mineral Synthesis Experimentation—Stephan Koenigsberger ’16; Sponsor: Peter Ryan, Geology

49. Observing Laser-Cooled Rubidium Atoms—Richard Longo ’16; Sponsor: Anne Goodsell, Physics

50. A Survey of Spatial and Seasonal Water Isotope Variability on the Juneau Icefield, Alaska—Andrew Hollyday ’18.5; Sponsor: Peter Ryan, Geology

51. All Stressed Out? Investigating a Role for SloR in the Streptococcus Mutans Oxidative Stress Response—Emily Fields ’16.5; Sponsor: Grace Spatafora, Biology

52. The Bridge—Patrick Chakauya ’16; Sponsor: John McLeod, History of Art and Architecture

53. Investigation of the Canonical vs. Non-Canonical Start Codons in the Human Clusterin Gene—Andrew Holtz ’16.5; Sponsor: Grace Spatafora, Biology

54. Capturing Nature: Middlebury’s Treasures—Sadie Coffin ’19, Katherine Corrigan ’19, Langley Dunn ’19, Julia Hower ’19, Kristin Kimble ’19, Michelle Lehman ’19, Lewis Nottonson ’19, Morgan Perlman ’19, Kreager Taber ’19, Ricky Zhou ’19; Sponsor: Ellery Foutch, American Studies
3:30–4:45 p.m.
Session IV: Oral Presentations

**Vermont: Past, Present, and Paradoxical**
Moderated by Former Governor Jim Douglas
McCardell Bicentennial Hall 216

3:30 p.m. Paleoclimate Reconstruction from Weybridge Cave Speleothem—Andrew Gorin ’16; Sponsor: Jeff Munroe, Geology

3:50 p.m. Chasing a Myth: How the Anglo-American Vermonters’ Ties to the Land Informed the Focus of the Vermont Eugenics Survey, 1925-1931—Morag McKenzie ’16; Sponsor: William Hart, History

4:10 p.m. Negotiating Ideology and Practice: Perspectives on Permaculture from Vermont—Nathaniel Blackford ’16; Sponsor: Marybeth Nevins, Sociology and Anthropology

4:30 p.m. Craft Beer, Local Cheese, and Opiates: The Role of Vermont’s “Idyllic” Landscape in Media Representations of a Heroin Panic—Sophia Miller ’16; Sponsor: Rebecca Tiger, Sociology and Anthropology

**Power, Resilience, and Causation: Understanding New Economic Patterns**
Moderated by Nadia Horning, Associate Professor of Political Science
McCardell Bicentennial Hall 219

3:30 p.m. Energy Security and Solar Power Usage in Jordan—Karina Toy ’17; Sponsor: Robert Greeley, Arabic

3:50 p.m. The Effect of the Clean Power Plan on Stock Prices of Utilities in the United States—Shaojin Li ’16; Sponsor: Nicholas Muller, Economics

4:10 p.m. Intersections of Environmental and Income Inequality—Virginia Wiltshire-Gordon ’16; Sponsor: Nicholas Muller, Economics

4:30 p.m. Economic Resilience in Sub-Saharan Africa: An Inquiry—Mzwakithi Shongwe ’16; Sponsor: Nadia Horning, Political Science

**Mothers of Change: Constructing Self and Society**
Moderated by Svea Closser, Associate Professor of Sociology and Anthropology
McCardell Bicentennial Hall 220

3:30 p.m. Representations of Mother-Daughter Relationships in Contemporary Chinese Female-Directed Cinema: Motherhood and Daughterhood in Three Selected Films—Nicole Schachman ’16; Sponsor: Thomas Moran, Chinese

3:50 p.m. The Effect of China’s One-Child Policy on Desired Fertility—Wei Wei Magnuson ’16; Sponsor: Peter Matthews, Economics

4:10 p.m. Food for Thought: The Construction of Children’s Diet in Yaoundé, Cameroon—Emma Gee ’16; Sponsor: Svea Closser, Sociology and Anthropology

4:30 p.m. The Power of Her Nonconformity: Defying Conventional Female Roles in the Comix World—Hannah Giese ’16; Sponsor: Enrique Garcia, Spanish and Portuguese

**Vital Signs: Cultural Evolution, Revolution, Revitalization?**
Moderated by Carrie Macfarlane, Director of Research and Instruction, Davis Family Library
McCardell Bicentennial Hall 303

3:30 p.m. Red Vienna in the Underground: Socialist Action in Fascist Austria, 1934-1938—Matthew Brophy ’16; Sponsor: Rebecca Bennett, History

3:50 p.m. Police and Prejudice: An Analysis of Race-Related Incidents of Police Brutality in the Contemporary U.S.—Somers Brush ’16; Sponsor: Erik Bleich, Political Science

4:10 p.m. *Formando Una Nueva Comunidad*: A Visual Anthropology—Lucia Christensen ’16; Sponsor: Kemi Fuentes-George, Political Science

4:30 p.m. Assisted Reproductive Technologies and the Catholic Church in Context: An Examination of Catholic Moral Theology Post-Vatican II—Emma McDonald ’16; Sponsor: James Calvin Davis, Religion
**Facets of South Asia**  
*Moderated by John Maluccio, Associate Professor of Economics*  
McCardell Bicentennial Hall 311

3:30 p.m.  
Why Toilets Aren’t the Answer: The Complex State of Sanitation in India—Maya Woser ’18; Sponsor: Jessica Teets, Political Science

3:50 p.m.  
Do Improvements in Routine Immunization Affect Educational Outcomes? A Difference in Difference Approach—Akasha Sarwar ’16; Sponsor: John Maluccio, Economics

4:10 p.m.  
Nonconceptuality in the Buddha’s Awakening—Matthew Spitzer ’16.5; Sponsor: William Waldron, Religion

**Heroic and Villainous Identities**  
*Moderated by Maria Hatjigeorgiou, Lecturer in Religion and Gender Sexuality and Feminist Studies*  
McCardell Bicentennial Hall 338

3:30 p.m.  
Alcibiades and Athens: Who Shot First?—Filippos Papageorgiou ’16; Sponsor: Jane Chaplin, Classics

3:50 p.m.  
Hades: A Modern Interpretation of the Classical Underworld—Jason Meuse ’18; Sponsor: Maria Hatjigeorgiou, Religion

4:10 p.m.  

4:30 p.m.  
Abraham Lincoln’s Speeches and the American Experiment—Zak Fisher ’16; Sponsor: Murray Dry, Political Science

**Gender, Nation, and Trauma**  
*Moderated by Karin Hanta, Director of Chellis House*  
McCardell Bicentennial Hall 403

3:30 p.m.  
Todos São Dignos Duma Vida Sem Violência: A Characterization of Violence Against Women in Brazil—Katherine Johnson ’18; Sponsor: Fernando Rocha, Spanish and Portuguese

3:50 p.m.  
“Will You Accuse a Lady to Her Face of Smelling Bad?” Women and the Trauma of the Civil War in Faulkner’s Short Stories—Julie Senat; Sponsor: Brett Millier, English and American Literatures

4:10 p.m.  
A Coffin for Old Norms: Gender as Represented in Grave-Robbing Fiction and Zhang Muye’s Gui chui deng—William Griffin ’16; Sponsor: Thomas Moran, Chinese

4:30 p.m.  
Philosophical Loneliness: Wittgensteinian Approaches to Skepticism—Kyle Kysela ’16; Sponsor: Stanley Bates, Philosophy

**Options: Hard Choices and Hardly Choosing**  
*Moderated by Bertram Johnson, Associate Professor of Political Science*  
McCardell Bicentennial Hall 411

3:30 p.m.  
Macaroni and Choose: Making Mac and Cheese Fun—Maryam Mahboob ’18; Sponsor: Kathryn Benson, MiddCORE

3:50 p.m.  
Compulsory Voting, Campaign Finance, and Representation: A Comparative Study of How Things Might Be Different If Everyone Voted—Sarah Steinberg ’16; Sponsor: Bertram Johnson, Political Science

4:10 p.m.  
An Exploration of Linguistic Resistance to Chinese Censorship Online—Abbie Wells ’16; Sponsor: Shawna Shapiro, Writing Program

4:30 p.m.  
Trust in Government and Redistributive Preferences—Hyeon-Seok (Tom) Yu ’16; Sponsor: Peter Matthews, Economics

4:45–5:30 p.m.  
Closing Reception  
McCardell Bicentennial Great Hall

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**Friday Evening Events**

7:30 and 10:00 p.m.  
*The Pitchfork Disney*  
Hepburn Zoo (ticketed event)

Company: Iram Asghar ’18, Alexander Burnett ’16, Kristin Corbett ’16.5, Daniel Fulham ’18, Joseph Haggerty ’19, Cole Merrell ’19, Taylor Rossini ’19, Madeleine Russell ’19, Emily Sarich ’16, Sabrina Wang ’19

8:30–10:00 p.m.  
Observatory Stargazing  
Toby Aicher ’16.5, Ben Belinski ’18.5, Jacob Brady ’17, Sam Cartwright ’18, Milena Crnogorcevic ’17, Avery Travis ’18, Roo Weed ’18.5; Sponsor: Jonathan Kemp, Sciences Tech Support Services
**Alphabetical by Name**

Full abstracts can be found online at go.middlebury.edu/symmobile, or go.middlebury.edu/sym.

**A**

Afework, Amanuel '17: Christianity in Ethiopia Then and Now—MBH 403 at 9:55 a.m.

Allen, Celeste (Sky Williams) '16: Through the Fire—MBH 216 at 9:15 a.m.

Al-Remaihi, Majid '18: Museum as Site of Mourning: Commemorating Forgotten Slavery in Qatar—MBH 438 at 9:15 a.m.

Amber, Nicolette '16: Too Thin or Not Thin Enough?: Complications in Female Cross-Country Runners’ Narratives on Diet and Body Image—MBH 216 at 12:15 p.m.

Arenas-Pino, Esteban '18: Lessons from Don Gerardo: Not All That Shines Is Gold—MBH 104 at 9:55 a.m.

Artaiz, Olivia '16: Effects of an Ependymin Mimetic on Learning and Memory on a Transgenic Mouse Model of Alzheimer’s Disease, Poster 2—MBH Great Hall at 10:30 a.m.

Arthaud, Dylan '17: Lessons from Don Gerardo: Not All That Shines Is Gold—MBH 104 at 9:55 a.m.

**B**

Belser, Abigail '16: Managing the Neuropsychiatric Symptoms of Dementia, Poster 35—MBH Great Hall at 2:45 p.m.

Beltran, Clair '16: Fields of Difference: Usage and Perception of Urban Park Spaces in New York City—MBH 411 at 9:55 a.m.; Hubbub, Poster 30—MBH Great Hall at 2:45 p.m.

Benoit, Eric '16: NYC: A Poetic Documentary—MBH 104 at 1:30 p.m.; Next Caller—MBH 104 at 1:30 p.m.

Berkley, Taylor Scott '16.5: The Ecology of Wallace Stevens: A Modernist and His Landscape—MBH 338 at 11:55 a.m.

Berlowitz, Josh '16: Fear, Honor, Advantage: The Rise of the Athenian Empire—MBH 311 at 9:35 a.m.

Bevier, Ellen '16: Tweeting the Revolution: An Analysis of Syrian Social Media—MBH 311 at 9:35 a.m.

Blackford, Nathaniel '16: Negotiating Ideology and Practice: Perspectives on Permaculture from Vermont—MBH 216 at 4:10 p.m.

Blelloch, Nicholas '16: The Synthesis of Soluble Poly (p-Phenylene Ethynylene) Polymers as Molecular Wires, Poster 33—MBH Great Hall at 2:45 p.m.

Bourrel, Laura: Lessons from Don Gerardo: Not All That Shines Is Gold—MBH 104 at 9:55 a.m.

Braddick, Valerie '16: Dose-Dependent Effects of Testosterone on Spatial Memory in Adult Male Rats, Poster 10—MBH Great Hall at 10:30 a.m.; Managing the Neuropsychiatric Symptoms of Dementia, Poster 35—MBH Great Hall at 2:45 p.m.

Broome, Jon '16: The Effect of Streaming Services on Music Piracy, Poster 6—MBH Great Hall at 10:30 a.m.

Brophy, Matthew '16: Red Vienna in the Underground: Socialist Action in Fascist Austria, 1934-1938—MBH 303 at 3:30 p.m.

Brush, Somers '16: Police and Prejudice: An Analysis of Race-Related Incidents of Police Brutality in the Contemporary U.S.—MBH 303 at 3:30 p.m.

Burke, Will '16.5: Petrology and Geochemistry of Metamorphosed Cambrian-Ordovician Volcanic Rocks of the St. Croix Belt, Western Penobscot Bay, Maine, Poster 39—MBH Great Hall at 2:45 p.m.

Burnett, Alexander '16: All Aboard the Ghost Train: An Exploration of Philip Ridley’s Play, The Pitchfork Disney—MBH 403 at 2:30 p.m.; The Pitchfork Disney, Thursday (7:30 p.m.) and Friday (7:30 and 10:00 p.m.) Evening Performances—Hepburn Zoo (ticketed events)

C

Carey, Zoe '16: Psychoanalysis and Aesthetics in the Hispanic World—MBH 104 at 11:15 a.m.

Chakauya, Patrick '16: The Bridge, Poster 52—MBH Great Hall at 2:45 p.m.

Chamberlain, Katie '16: Climate Change-Induced Migration in the Mekong Delta—MBH 219 at 9:55 a.m.

Chamorro, Andres ’16: Spaces of Contention: Examining Urban and Rural Responses to the Nicaraguan Grand Canal—MBH 104 at 9:35 a.m.

Cheesman, John ’16: Psychoanalysis and Aesthetics in the Hispanic World—MBH 104 at 11:15 a.m.

Christensen, Lucia ’16: Formando Una Nueva Comunidad: A Visual Anthropology—MBH 303 at 4:10 p.m.


Cochrane, Maggie ’16: The Middlebury Transit Station, Poster 11—MBH Great Hall at 10:30 a.m.

Coffin, Sadie ’19: Capturing Nature: Middlebury’s Treasures, Poster 54—MBH Great Hall at 10:30 a.m. and 2:45 p.m.

Colan, Caroline ’17.5: The Sendero Pacífico: A Long Distance Hiking Trail and a New Form of Rural Tourism, Poster 34—MBH Great Hall at 2:45 p.m.

Colwell, Meghan ’16: A Political Economy of Sovereign Debt: Perspectives on Alternative Paradigms—MBH 219 at 2:10 p.m.


Corbett, Kristin ’16.5: All Aboard the Ghost Train: An Exploration of Philip Ridley’s Play, The Pitchfork Disney—MBH 403 at 2:30 p.m.; The Pitchfork Disney, Thursday (7:30 p.m.) and Friday (7:30 and 10:00 p.m.) Evening Performances—Hepburn Zoo (ticketed events)

Corrigan, Katherine ’19: Capturing Nature: Middlebury’s Treasures, Poster 54—MBH Great Hall at 10:30 a.m. and 2:45 p.m.

Cowan, Sam ’16: Synthesis of Arsenic-Bearing Magnesium Carbonate and Implications for Arsenic in Groundwater, Poster 7—MBH Great Hall at 10:30 a.m.; Analysis of Groundwater Quality in a Fractured Rock Aquifer Influenced by Black Shales in the Central Champlain Valley, Western Vermont—MBH 411 at 1:50 p.m.

Crnogorcevic, Milena ’17: New Selection Criteria for Red and Obscured Quasars in Stripe 82, Poster 44—MBH Great Hall at 2:45 p.m.

Degolia, Nico ’16: Symposium on Ancient Political Philosophy—MBH 311 at 11:15 a.m.

Delattre, Brennan ’16: Capoeira: The Relationship of an Afro-Brazilian Movement Art to State Anxiety, State Self-Efficacy, and Prosocial Behavior Tendencies—MBH 303 at 11:15 a.m.

Doig-Acuña, Maya ’16.5: Boundaries, Bridges, Bodies: Afro-Latinidad and the American Color Line—MBH 219 at 11:15 a.m.

Dombroski, Jacob ’17: Magnetic Circular Dichroism Study of Dimetallic Hydrolase Enzymes, Poster 19—MBH Great Hall at 10:30 a.m.

Dong, Kevin ’16: Soda or Rotisserie Chicken? An Evaluation of the Food Stamps Program, Poster 3—MBH Great Hall at 10:30 a.m.

Donohue-Meyer, Clare ’16: Borders and Stories: Feminist Geographic Perspectives on Bordering in the United States—MBH 219 at 1:50 p.m.

Dunn, Langley ’19: Capturing Nature: Middlebury’s Treasures, Poster 54—MBH Great Hall at 10:30 a.m. and 2:45 p.m.


Edwards, Georgia Grace ’18: Perceptions of Disability in Ethiopian Children—MBH 219 at 9:35 a.m.

Eisenberg, Naomi ’18: By the Bay—MBH 220 at 9:35 a.m.

Epstein, Jacob ’16: Two-Photon Microscopy: Imaging Tissue with Lasers—MBH 411 at 2:10 p.m.

Fernald, Yasmine ’16: Unequal Opportunities: Education Funding Policy and the Achievement Gap—MBH 220 at 11:55 a.m.

Ferrari, Eliza ’16: Effects of an Ependymin Mimetic on Learning and Memory on a Transgenic Mouse Model of Alzheimer’s Disease, Poster 2—MBH Great Hall at 10:30 a.m.

Fields, Emily ’16.5: All Stressed Out? Investigating a Role for SloR in the Streptococcus Mutans Oxidative Stress Response, Poster 51—MBH Great Hall at 2:45 p.m.

Fink, Kae ’16.5: Sorptive Behavior of Hexadecyltrimethylammonium-Modified Montmorillonite: Elucidating Effects of Interlayer Chemistry and Contaminant Structure—MBH 311 at 1:30 p.m.
Fishbin, Amanda '16: Geochemical and Hydrochemical Analysis of the Bedrock Aquifer in Monkton, Vermont, Poster 4—MBH Great Hall at 10:30 a.m.; Orthorhombic Series, Poster 31—MBH Great Hall at 2:45 p.m.

Fisher, Zak '16: Abraham Lincoln's Speeches and the American Experiment—MBH 338 at 4:30 p.m.

Follansbee, Kelsey '16.5: Imagining Islam: 19th-Century Evangelical American Missionaries’ Accounts of Islam—MBH 303 at 2:10 p.m.

Fraser, Timothy '16: Reconciling Faith and Culture: Japanese Protestants after the 2011 Triple Disaster—MBH 219 at 11:35 a.m.; Restarting the Sendai Reactor: Japanese Civic Activism after Fukushima—MBH 220 at 1:50 p.m.

Friedman, Shelby '16: Online Public Discourse on Foreign Policy: Assessing Quality of Discourse in Digital Deliberation—MBH 220 at 2:10 p.m.

Fullwood, Brandi '17: All Memes Are Created Equal: The Influence of Social Media on Political Participation—MBH 216 at 1:50 p.m.

G Games, Mateo '19: How Angst Can Set You Free—MBH 338 at 1:30 p.m.

Garel-Martorana, Michael '16: Water Street Transit Center: Middlebury, Poster 5—MBH Great Hall at 10:30 a.m.

Gee, Emma '16: Food for Thought: The Construction of Children’s Diet in Yaoundé, Cameroon—MBH 220 at 4:10 p.m.


Gell, Brandon '16: Oasis Transportation Hub, Poster 36—MBH Great Hall at 2:45 p.m.

Giese, Hannah '16: The Power of Her Nonconformity: Defying Conventional Female Roles in the Comix World—MBH 220 at 4:30 p.m.

Gilbert, Dylan '16: Visualizing Sicily: Rethinking the Approach to the Royal Commissions of Roger II—MBH 220 at 1:30 p.m.

Gilbert, Elle '16: Psychoanalysis and Aesthetics in the Hispanic World—MBH 104 at 11:15 a.m.

Gimbel, Alex '16.5: Akbar’s Sacred Kingship: Religious Influences and Their Visual Manifestations in the Akbarnama—MBH 403 at 2:10 p.m.

Goettl, Audrey '16: Psychoanalysis and Aesthetics in the Hispanic World—MBH 104 at 11:15 a.m.

Gogineni, Reshma '16: Morality of Neuroscientific Reductionism: Predicting Problem Populations?—MBH 411 at 10:15 a.m.

Goins, Emily '17: Do Astrocytes Play a Role in Mediating Morphine Effects in Infants? Poster 14—MBH Great Hall at 10:30 a.m.


Gordon, Theodore '16: Detection Electronics for a Laser-Scanning Microscope, Poster 17—MBH Great Hall at 10:30 a.m.

Gorin, Andrew '16: Paleoclimate Reconstruction from Weybridge Cave Speleothem—MBH 216 at 3:30 p.m.

Grady, Maeve '16.5: Creating a Landscape-Scale Model of Soil Evolution on the Pacific Coast of Costa Rica, Poster 20—MBH Great Hall at 10:30 a.m.

Graham, Margaret '18: The Trump Effect: Provocative Statements’ Impacts on Voter Psychology—MBH 216 at 2:10 p.m.

Griffin, William '16: A Coffin for Old Norms: Gender as Represented in Grave-Robbing Fiction and Zhang Muye’s Gui chui deng—MBH 403 at 4:10 p.m.

Guibal-Engler, Louise: Lessons from Don Gerardo: Not All That Shines Is Gold—MBH 104 at 9:55 a.m.

Gustafson, Halle '16: Rethinking the Gender Gap: Gender and Firm Production—MBH 220 at 10:15 a.m.


Hage, Sam '16: Regis FILLbin: A Crossword Puzzle Solver, Poster 38—MBH Great Hall at 2:45 p.m.

Haque, Sabina '18: Comparative Analysis of Cas9 Activators across Multiple Species, Poster 23—MBH Great Hall at 10:30 a.m.

Harmor, Elisabeth '16: Preserving Middlebury College’s Antique Clothing Collection, Poster 42—MBH Great Hall at 2:45 p.m.

Harris, Ben '16: The Peasant Paradox: Narratives of Cooperative Labor, Corvée, and Collective Violence in Rwanda and Haiti, Poster 24—MBH Great Hall at 10:30 a.m.

He, Tianfang '16: FLT1 Signaling in Metastasis-Associated Macrophages Activates an Inflammatory Signature that Promotes Breast Cancer Metastasis, Poster 8—MBH Great Hall at 10:30 a.m.
Headrick, Andrew ’16: Billy Graham and the Rise of Evangelical Christianity in South Africa—MBH 403 at 9:15 a.m.

Helweh, Waleed ’17: Magnetic Circular Dichroism Study of Dimetallic Hydrolase Enzymes, Poster 19—MBH Great Hall at 10:30 a.m.

Henry, Lauren ’16: Impact of Need Satisfaction on Collegiate Athletes’ Motivation, Performance, Commitment, and Well-Being—MBH 303 at 11:35 a.m.

Herrera, Danilo ’18: *Next Caller*—MBH 104 at 1:30 p.m.

Hlavaty, Helena ’16: Examining the Impact of Male Circumcision Supply on Women’s Sexual Health Behaviors in Zambia, Poster 37—MBH Great Hall at 2:45 p.m.

Hollyday, Andrew ’18.5: A Survey of Spatial and Seasonal Water Isotope Variability on the Juneau Icefield, Alaska, Poster 50—MBH Great Hall at 2:45 p.m.

Holtz, Andrew ’16.5: Investigation of the Canonical vs. Non-Canonical Start Codons in the Human Clusterin Gene, Poster 53—MBH Great Hall at 2:45 p.m.

Horton, Kirk ’17: *Life’s Surprising*—MBH 104 at 1:30 p.m.

Howard, Greer ’16: Changing Consumer Demand: How Philadelphia Has Used Access and Education to Combat Obesity, Poster 26—MBH Great Hall at 10:30 a.m.

Hower, Julia ’19: Capturing Nature: Middlebury’s Treasures, Poster 54—MBH Great Hall at 10:30 a.m. and 2:45 p.m.

Hsiang, Harrison ’17: EEG-Based Brain-Computer Interface for Transcription of Internally Generated Pitch, Poster 40—MBH Great Hall at 2:45 p.m.

Itin, Elinor ’16: Breaking Skin and Silence: Self-Injury and Female Voice—MBH 216 at 11:15 a.m.

Jackson, Sierra ’18: *Black Girl Magic*—MBH 104 at 1:30 p.m.

Jaeger, Eliza ’17: Effect of Testosterone on Spatial Memory in Aged Male Rats, Poster 27—MBH Great Hall at 10:30 a.m.

Jin, Xiaoli ’19: Gender Biases in Elections: Identify Voters’ Perceptions of Female Candidates—MBH 411 at 11:55 a.m.

Johnson, Katherine ’16: *Todos São Dignos Duma Vida Sem Violência*: A Characterization of Violence Against Women in Brazil—MBH 403 at 3:30 p.m.

Jun, Jinseul ’17: The Hashemite Family’s Vision, Disability Policies, and Jordanians with Disabilities—MBH 216 at 11:35 a.m.

Kahn, Chad ’16: *NYC: A Poetic Documentary*—MBH 104 at 1:30 p.m.

Kelly, Anna ’16: Blood, Lineage, and Culture: Who is Really “Indian”?—MBH 303 at 9:15 a.m.

Khan, Alexander ’17: What Do You Believe? The Next Generation of American Politics—MBH 338 at 1:30 p.m.

Kim, Chan Woo ’16: Reduced to a Score Sheet: Objectification of Disabled People in Social Security Policies—MBH 303 at 9:35 a.m.

Kim, Jeeyun Eunice ’17: A Country Divided, an Identity Torn: What Does It Mean to Be Korean?—MBH 219 at 11:55 a.m.

Kim, Kathryn ’16: Practical Patrons: Reexamining the Art of the Mongols—MBH 338 at 12:15 p.m.

Kimble, Kristin ’19: Capturing Nature: Middlebury’s Treasures, Poster 54—MBH Great Hall at 10:30 a.m. and 2:45 p.m.

Kobia, Betty ’16: Investigating Endocrine Disruption in Animal Models Using a Novel Indicator—MBH 338 at 9:35 a.m.

Koenigsberger, Stephan ’16: Analysis of Uranium Speciation in Phosphorites: Insights from Sequential Chemical Extraction and Mineral Synthesis Experimentation, Poster 48—MBH Great Hall at 2:45 p.m.


Kucharzyk, Katherine ’16: Exposure to Bisphenol-A Affects Bovine Oocyte Spindle Morphology and Chromosome Alignment—MBH 338 at 10:15 a.m.

Kysela, Kyle ’16: Philosophical Loneliness: Wittgensteinian Approaches to Skepticism—MBH 403 at 4:30 p.m.

Laska, August ’17.5: *Real*—MBH 104 at 1:30 p.m.

Lehman, Michelle ’19: Capturing Nature: Middlebury’s Treasures, Poster 54—MBH Great Hall at 10:30 a.m. and 2:45 p.m.

Lenhard, Nora ’18: The Trump Effect: Provocative Statements’ Impacts on Voter Psychology—MBH 216 at 2:10 p.m.

Li, Shaojin ’16: The Effect of the Clean Power Plan on Stock Prices of Utilities in the United States—MBH 219 at 3:50 p.m.

Linehan, Henry ’16: How Can Financial Decisions Be Manipulated?—MBH 216 at 1:30 p.m.
Loebs, John ‘16: Symposium on Ancient Political Philosophy—MBH 311 at 11:15 a.m.

Loewald, Robin ‘16: Feminine Power in Claiming Christianity as a Community of Women in Toni Morrison’s *Song of Solomon, Paradise,* and *A Mercy*—MBH 303 at 1:30 p.m.

Longo, Richard ‘16: Observing Laser-Cooled Rubidium Atoms, Poster 49—MBH Great Hall at 2:45 p.m.

Lovdal, Larson ‘16.5: Constructing a Simple and Versatile Optical Tweezer, Poster 21—MBH Great Hall at 10:30 a.m.; X-ray Analysis of Four Low-Redshift QSOs, Poster 45—MBH Great Hall at 2:45 p.m.

Lower, John ‘16: Effect of Testosterone on Spatial Memory in Aged Male Rats, Poster 27—MBH Great Hall at 10:30 a.m.

Ly, Annie ‘16: (Brain) Food for Thought: How Does Energetic Availability Change in Response to a Decrease in Synaptic Strength?—MBH 403 at 11:55 a.m.

Magnuson, Wei Wei ‘16: The Effect of China’s One-Child Policy on Desired Fertility—MBH 220 at 3:50 p.m.

Mahboob, Maryam ‘18: Macaroni and Choose: Making Mac and Cheese Fun—MBH 411 at 3:30 p.m.

Maia, Sofy ‘16: *Next Caller*—MBH 104 at 1:30 p.m.


McDonald, Emma ‘16: Assisted Reproductive Technologies and the Catholic Church in Context: An Examination of Catholic Moral Theology Post-Vatican II—MBH 303 at 4:30 p.m.

McElroy, Ryan ‘16.5: Using Lake Sediment Records to Reconstruct Postglacial Dust Delivery to High-Elevation Lakes in the Uinta Mountains, Utah—MBH 438 at 9:55 a.m.

McInerney, Ian ‘16.5: Symposium on Ancient Political Philosophy—MBH 311 at 11:15 a.m.

McKenna, Morag ‘16: Chasing a Myth: How the Anglo-American Vermonter’s Ties to the Land Informed the Focus of the Vermont Eugenics Survey, 1925-1931—MBH 216 at 3:50 p.m.

Merger, Caius ‘17: Caligula: A Victim of His Childhood—MBH 403 at 1:30 p.m.

Messner, Laura: Lessons from Don Gerardo: Not All That Shines Is Gold—MBH 104 at 9:55 a.m.

Meuse, Jason ‘18: Hades: A Modern Interpretation of the Classical Underworld—MBH 338 at 3:50 p.m.

Millard, Hazel ‘18: The Trump Effect: Provocative Statements’ Impacts on Voter Psychology—MBH 216 at 2:10 p.m.

Miller, Sophia ‘16: Craft Beer, Local Cheese, and Opiates: The Role of Vermont’s “Idyllic” Landscape in Media Representations of a Heroin Panic—MBH 216 at 4:30 p.m.

Monette, Patrick ‘17: Characterizing the Role of Complement in the Caspase-11-Dependent Inflammasome—MBH 403 at 11:35 a.m.

Moore, Katrina ‘17: An Electron Named Flo, Poster 43—MBH Great Hall at 2:45 p.m.

Morris, Rachael ‘18: Understanding African Traditional Religion—MBH 403 at 9:35 a.m.

Mueller, Tabitha ‘18: Scars and Jigsaw Pieces—MBH 338 at 1:30 p.m.

Murphy, Timothy ‘19: Lessons from Don Gerardo: Not All That Shines Is Gold—MBH 104 at 9:55 a.m.

Nazer, Maggie ‘17: In the Shoes of Bulgarian Women: Experiences with Sexism and the Narrative of Progress—MBH 411 at 12:15 p.m.


Niebuhr, Austin ‘16: Dreaming Away Society’s Expectations: A Translation and Analysis of “Yingtao qingyi”—MBH 303 at 12:15 p.m.


Nottonson, Lewis ‘19: Capturing Nature: Middlebury’s Treasures, Poster 54—MBH Great Hall at 10:30 a.m. and 2:45 p.m.
Office, Emma ’17: Magnetic Circular Dichroism Study of Dimetallic Hydrolase Enzymes, Poster 19—MBH Great Hall at 10:30 a.m.

Oglesby, Oliver ’18: The (Post-)Apartheid City: Applying Hoyt’s Sector Theory to Cape Town, South Africa, Poster 9—MBH Great Hall at 10:30 a.m.

O’Keefe, Sam ’16—5: Using Lake Sediment Records to Reconstruct Postglacial Dust Delivery to High-Elevation Lakes in the Uinta Mountains, Utah—MBH 438 at 9:55 a.m.

Papageorgiou, Filippos ’16: Alcibiades and Athens: Who Shot First?—MBH 338 at 3:30 p.m.

Pappalardo, Gioia ’16: A Design for Meig’s Point Nature Center at Hammonasset Beach, Poster 25—MBH Great Hall at 10:30 a.m.


Parsons, Jana ’16: Drinking, Drugs, and Depression: Economic Mobility and White Middle-Aged Mortality—MBH 411 at 9:35 a.m.

Pena, Daniel ’16: Achieving Poverty Alleviation in Jordan through the Islamic Institution of Zakat—MBH 303 at 9:55 a.m.

Perlman, Morgan ’16—5: Senior Thesis Work for Architectural Studies: A New Approach to Middlebury, Poster 16—MBH Great Hall at 10:30 a.m.; A Proposal for Bicentennial Hall Park—MBH 311 at 1:50 p.m.


Rivera, Melanie ’19: Why Can’t I Be Both?—MBH 338 at 1:30 p.m.

Rodriguez, Angeline ’16: Rabid Feminists and Masculine Doctors: Covert Gender Bias in a Lexicographic Corpus—MBH 411 at 11:35 a.m.

Rose, Ben ’17—5: On an Average Day: A Scenic Design, Poster 18—MBH Great Hall at 10:30 a.m.

Rosenberg, Adam ’16: Same Diet, Different Produce: Gardening Programs and Childhood Consumption in Rural Zambia—MBH 220 at 11:15 a.m.

Roychoudhury, Debanjan ’16: Ethnic at Home, Policed in the Streets: Experiences of Policing and Racial Identity amongst Immigrant Men of Color—MBH 219 at 12:15 p.m.

Salem, Ali ’16: Next Caller—MBH 104 at 1:30 p.m.

Sarwar, Akasha ’16: Do Improvements in Routine Immunization Affect Educational Outcomes? A Difference in Difference Approach—MBH 311 at 3:50 p.m.

Schachman, Nicole ’16: Representations of Mother-Daughter Relationships in Contemporary Chinese Female-Directed Cinema: Motherhood and Daughterhood in Three Selected Films—MBH 220 at 3:30 p.m.

Schindler, Joseph ’18: Mechanisms of Biofilm Formation in B. subtilis and P. aeruginosa—MBH 403 at 11:15 a.m.

Schlenker, Lee ’16: A Spatial Politics of Public Space: Four Ethnographies in Havana—MBH 311 at 2:30 p.m.

Schneider, Madeline ’16—5: Assessment of the Effects of Bisphenol A on Oxidative Stress in Bovine Granulosa Cells, Poster 15—MBH Great Hall at 10:30 a.m.

Scott, Patrick ’16: Synthesis of Arsenic-Bearing Magnesium Carbonate and Implications for Arsenic in Groundwater, Poster 7—MBH Great Hall at 10:30 a.m.; The Umbrella Hill Formation: A Detrital Zircon Study, Poster 32—MBH Great Hall at 2:45 p.m.
**Sedimo, Ratang ’18.5:** Leadership and Women Empowerment in Neo-Pentecostal African Churches—MBH 303 at 11:55 a.m.

**Seibold, Tara ’16:** Media Construction and Narratives of the 2015 Nepal Earthquakes—MBH 220 at 2:30 p.m.

**Senat, Julie:** Lessons from Don Gerardo: Not All That Shines Is Gold—MBH 104 at 9:55 a.m.; “Will You Accuse a Lady to Her Face of Smelling Bad?” Women and the Trauma of the Civil War in Faulkner’s Short Stories—MBH 403 at 3:50 p.m.

**Shaw, Linley ’17:** The Magnitude of Small Talk—MBH 338 at 1:30 p.m.

**Shongwe, Mzwakithi ’16:** Economic Resilience in Sub-Saharan Africa: An Inquiry—MBH 219 at 4:30 p.m.

**Silva-Pinto, Aleck ’16:** A Linguistic Revolution: The Role of Arabic in Nation Building in the Middle East and North Africa—MBH 438 at 10:15 a.m.

**Silver, Dana ’16:** MiddGuard: A Framework for Collaborative and Extensible Visual Analytics, Poster 12—MBH Great Hall at 10:30 a.m.

**Silverhart, Perri ’16.5:** Synthesis of Arsenic-Bearing Magnesium Carbonate and Implications for Arsenic in Groundwater, Poster 7—MBH Great Hall at 10:30 a.m.; Utilizing Landslides on Lake Champlain as Paleoseismic and Paleohazard Indicators, Poster 29—MBH Great Hall at 2:45 p.m.

**Skarica, Karlo ’17:** Symposium on Ancient Political Philosophy—MBH 311 at 11:15 a.m.

**Sloan, Erika ’16:** The Choice of Achilles: An Epyllionic Exploration—MBH 311 at 10:15 a.m.

**Smith, Andrew ’17:** Symposium on Ancient Political Philosophy—MBH 311 at 11:15 a.m.

**Smith, Andrew ’19:** The Catholic Church: Adapt or Wither—MBH 303 at 2:30 p.m.

**Sobel, Hannah ’17.5:** What Gets “Coded” into Our Language? Understanding Middlebury through Discourse Analysis—MBH 216 at 9:55 a.m.

**Son, Hee Yeong ’18:** Lessons from Don Gerardo: Not All That Shines Is Gold—MBH 104 at 9:55 a.m.

**Spitzer, Matthew ’16.5:** Nonconceptuality in the Buddha’s Awakening—MBH 311 at 4:10 p.m.

**Steele, Jack ’16:** Late Pleistocene Chronology of Lake Terreton, Southeastern Idaho, Poster 22—MBH Great Hall at 10:30 a.m.

**Steinberg, Sarah ’16:** Compulsory Voting, Campaign Finance, and Representation: A Comparative Study of How Things Might Be Different If Everyone Voted—MBH 411 at 3:50 p.m.

**Stone, Noah ’16.5:** Geochemistry and Petrology of the Cuttingsville Igneous Suite, Poster 13—MBH Great Hall at 10:30 a.m.

**Su, Khine Thant ’16:** Burmese Way to Socialism: A Political Blunder or an Expensive Ticket for Peace?—MBH 403 at 1:50 p.m.

**Swett, Sara ’17:** The Right Choice—Give a Girl a Choice: Effects of Safe Spaces on Self-Esteem in Girls in Tanzania—MBH 216 at 11:55 a.m.

**Taber, Kreager ’19:** Capturing Nature: Middlebury’s Treasures, Poster 54—MBH Great Hall at 10:30 a.m. and 2:45 p.m.

**Taber, Sage ’16.5:** A Proposal for Bicentennial Hall Park—MBH 311 at 150 p.m.; Middlebury Depot, Poster 46—MBH Great Hall at 2:45 p.m.

**Takeda, Haruna ’18:** What Gets “Coded” into Our Language? Understanding Middlebury through Discourse Analysis—MBH 216 at 9:55 a.m.

**Tauke, Sam ’16:** Symposium on Ancient Political Philosophy—MBH 311 at 11:15 a.m.


**Toy, Karina ’17:** Energy Security and Solar Power Usage in Jordan—MBH 219 at 3:30 p.m.

**Trencher, Julia ’18:** Psychoanalysis and Aesthetics in the Hispanic World—MBH 104 at 11:15 a.m.

**Trotz-Liboff, Leo ’17:** Nietzsche, Platonic Myth and Poetry—MBH 338 at 11:35 a.m.

**Uram, Weston ’18:** My Emoji, Poster 1—MBH Great Hall at 10:30 a.m.

**Vasitas, Marie ’18:** Psychoanalysis and Aesthetics in the Hispanic World—MBH 104 at 11:15 a.m.

**Vazquez, Cara ’17:** Examining Status Hierarchies of Muslims, Jews, and Catholics in the New York Times and the Guardian between 1985 and 2014—MBH 303 at 1:50 p.m.
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<td>Montana Wolves: A Literary and Conceptual Exploration of Space and the Wild—MBH 311 at 2:10 p.m.</td>
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<td>Warren, Stuart '17</td>
<td>Representations of “Mental Illness” and Madness in Icarus Project Books—MBH 338 at 11:15 a.m.</td>
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<td>In Our Twenties: Exploring Memory, Mobility, and Independence through Verbatim Theatre—MBH 219 at 10:15 a.m.</td>
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<td>Weber, Margaret '18</td>
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<td>An Exploration of Linguistic Resistance to Chinese Censorship Online—MBH 411 at 4:10 p.m.</td>
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<td>Williams, Tamir '16</td>
<td>Bette, AKA Mammy, Big Momma, Madea, and Others Alike: Constructions of an American Stereotype—MBH 219 at 2:30 p.m.</td>
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<td>Wilner, Joel '18</td>
<td>Estimating Temporal Redistribution of Water in Upper Stratigraphy of the Juneau Icefield, Alaska—MBH 411 at 1:30 p.m.</td>
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<td>Wiltshire-Gordon, Virginia '16</td>
<td>Intersections of Environmental and Income Inequality—MBH 219 at 4:10 p.m.</td>
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<td>(Brain) Food for Thought: How Does Energetic Availability Change in Response to a Decrease in Synaptic Strength?—MBH 403 at 11:55 a.m.</td>
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<td>Wosser, Maya '18</td>
<td>Why Toilets Aren’t the Answer: The Complex State of Sanitation in India—MBH 311 at 3:30 p.m.</td>
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<td>Low-Income Housing in China: Recent Developments and Issues—MBH 219 at 9:15 a.m.; Trust in Government and Redistributive Preferences—MBH 411 at 4:30 p.m.</td>
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<td>Zhai, Wentao '17</td>
<td>Symposium on Ancient Political Philosophy—MBH 311 at 11:15 a.m.</td>
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**RESEARCH FUNDING AND SUPPORT AT MIDDLEBURY**

**Academic Departments**
The foundation of on-campus student research, individual academic departments provide the framework and advising that allows students to implement research projects. Many departments also share information about undergraduate and postgraduate research opportunities.

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In addition to overseeing the Spring Student Symposium, URO promotes opportunities for undergraduate research on and off campus, and works to identify new research opportunities for students. URO oversees funds supporting senior work, academic travel, and summer research. Fellowships staff provide advising for students seeking competitive national fellowship opportunities during their undergraduate years and after graduation. Both URO and fellowships programs are part of the Center for Teaching, Learning, and Research.

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