



— Middlebury —

SPRING STUDENT
SYMPOSIUM

APRIL 9 - 10, 2015

ACKNOWLEDGEMENTS

Middlebury's Spring Student Symposium is truly a community-wide effort, and there are many individuals to thank.

The CTRLR faculty and staff provided support and coordination for the symposium, especially JoAnn Brewer and her student staff. In addition, Mary Ellen Bertolini and Jeanne Albert helped with proofreading. 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 and media services staff; and the academic technology group including Bill Koulopoulos, Joe Antonioli, Heather Stafford, and the digital media tutors.

We are thankful for the efforts of Pieter Broucke and his Mahaney Center for the Arts colleagues, including Claire Adams and Greg Vitercik, who are key to the success of our opening night events. Lisa Gates and Colleen Norden facilitated bringing our keynote speaker to campus; Karen Guttentag, Sam Liebhaber, AJ Vasiliou, and Marybeth Nevins served on the Symposium Abstract Committee. Thanks to students Rubi Saavedra Andres '17, Adam Rivera '17, and Ethan Roy '15, who provided fresh perspectives

and hours of assistance. Carey Bass, Valerie Costello, Stephen Diehl, Pam Fogg, Blair Kloman, Pam McGuire, Sara Marshall, Lisa LaChapelle, and Ben Savard '14 helped us create images, get the word out, and document the event. Yonna McShane, Mack Roark, Kevin Benscheidt '17, and Oratory Now student coaches assisted students in preparing their talks and posters by providing excellent learning materials and workshops. Ian Martin and Beth Connor with their catering team provided an outstanding menu. Mary Reed and Lisa Ayers supported the symposium's logistical needs. Cathy Ekstrom, Christa Clifford, and Monica Carroll facilitated arrangements within Bicentennial Hall, Mahaney Center for the Arts, and the Johnson Memorial Building. We are grateful to all the people who served as moderators of presentation sessions. And we 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 Symposium Committee

— Middlebury —
SPRING STUDENT
SYMPOSIUM

For complete schedules and abstracts
for the ninth annual symposium,
visit go.middlebury.edu/symmobile or
go.middlebury.edu/sym

WELCOME

The ninth annual Spring Student Symposium promises to be the biggest and best yet.

The symposium is a two-day event, opening Thursday night in the Mahaney Center for the Arts, continuing all day Friday in McCardell Bicentennial Hall, with open exhibits in Johnson, and concluding Friday evening. Classes have been suspended for the day on Friday in order to allow all members of the Middlebury College community to join in this celebration of student research and creative achievement.

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 2015 Spring Symposium Committee

Pat Manley, Professor of Geology, Co-chair

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

Claire Adams, Art Events Assistant

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

Marcos Rohena-Madrado, Assistant Professor of Spanish

Shel Sax, Director of Educational Technology

AnGayle (AJ) Vasiliou, Assistant Professor of Chemistry

Greg Vitercik, Professor of Music

TABLE OF CONTENTS

Welcome and Introductory Statements	2
Keynote Speaker Biography	5
Spring Student Symposium Schedule: Overview	6
Spring Student Symposium Schedule: Thursday	8
Spring Student Symposium Schedule: Friday	10
Presenter Index	18
Research Funding and Support at Middlebury.	28

LETTER FROM THE PRESIDENT

Welcome to the 2015
Spring Student Symposium!

Once again we gather to celebrate the drive, the creative talents, and the passion for independent investigation and learning that are a hallmark of the Middlebury experience.

Now in its ninth year, our two-day symposium showcases the astonishing breadth and depth of our students' interests. This year more than 300 Middlebury undergraduates will present, perform, and display their work. From costume designs to the impact of covert drone strikes on polio eradication in Pakistan; from building a laser-scanning microscope to analyzing the effects of Internet usage on marital stability, you will find that the liberal arts are on full display over the course of these two days.

All of this is made possible through the guidance and encouragement of the Middlebury College faculty. Our role as educators is to foster intellectual inquisitiveness, independent thought, and a willingness to take risks. What you will see, hear, and experience is a testament to the value of that work.



I want to thank those members of the faculty who have devoted so much time helping guide their students to this point. And I thank the many faculty, staff, and students for their tremendous effort in making this symposium possible.

Enjoy your time today and tomorrow.

Ronald D. Liebowitz
President

KEYNOTE SPEAKER

Kevin Murungi '01

Kevin Murungi '01 is director of human rights and foreign policy programs at Global Kids, a nonprofit educational organization for global learning and youth development. He is also program director of the Global Kids and Council on Foreign Relations Summer Institute, a three-week summer program where youth explore the role of young people and the use of international law and foreign policy to address global challenges.

Murungi earned his bachelor's degree in political science and economics from Middlebury and his master's in international affairs from American University. A Kenyan national, Murungi says his childhood in Nairobi played an important role in his professional path. "I lived in a borderline dictatorial regime and that awoke in me the desire to take action," he says.

At Middlebury, a first-year course in international law and international politics with Professor Russell Leng made a strong impression and convinced him to become a political science major. Outside the classroom, Murungi was active in Umoja, Middlebury's African student organization and the Distinguished Men of Color student organization. Both groups, he says, provided important forums for dialogue about race and experiences of students of color on campus.

Murungi's role at Global Kids involves education and curriculum development specific to human rights,



international law, and foreign policy, as well as professional development. He plans and leads international travel opportunities for Global Kids students to travel abroad and work in solidarity with young people in other parts of the world on human rights issues.

He has brought students to South Africa to learn about HIV/AIDS; to the Maldives to see the impacts of climate change; and to Bosnia to witness the difficult healing process of a nation—all with the goal that students will take home what they learn and apply it to their own communities.

PROGRAM SCHEDULE OVERVIEW

Thursday

7:00–8:00 p.m.

Welcome and Keynote Address

Mahaney Center for the Arts Concert Hall

President Ron Liebowitz opens the 9th Annual Spring Student Symposium and Zeke Caceres '15 introduces Keynote Speaker Kevin Murungi '01. *Arrival music by Collegium and D8 begins at 6:40 p.m.*

8:00–8:30 p.m.

Opening Reception

Mahaney Center for the Arts Lobbies

Entertainment by MIDDjazz and the Middlebury Swing Club.

8:30–9:30 p.m.

Session I

Concert Hall, Dance Theatre, Museum of Art, MCA 125, and MCA 232

10:00–11:30 p.m.

Session II: 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 Great Hall

Andi Lloyd, Vice President for Academic Affairs, Dean of Faculty, and Stewart Professor of Biology

9:15 a.m.–5:00 p.m.

Art Exhibits

Johnson Mezzanine and Pit

9:15–10:30 a.m.

Session I: Oral Presentations

McCardell Bicentennial Hall classrooms 104, 216, 219, 220, 303, 311, 338, 403, 411, 438

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, 438

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, 438

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, 403, 411

4:45-5:30 p.m.

Closing Reception

McCardell Bicentennial Great Hall

7:30 & 10:00 p.m.

Session V: Evening Performance

Hepburn Zoo

COMPLETE SCHEDULE—THURSDAY

6:40–7:00 p.m.

Concert Hall Doors Open
Performances by Collegium and D8

7:00–8:00 p.m.

Welcome and Keynote Address
Mahaney Center for the Arts Concert Hall

President Ron Liebowitz opens the 9th Annual Spring Student Symposium and Zeke Caceres '15 introduces Keynote Speaker Kevin Murungi '01.

8:00–8:30 p.m.

Refreshments and Entertainment
in the Mahaney Lobbies

Theatre Costume Display

Mahaney Center Upper Lobby

MIDDjazz

Mahaney Center for the Arts Upper Lobby

Middlebury Swing Dance Club

Mahaney Center for the Arts Lower Lobby

8:30–9:30 p.m.

Session I: Mahaney Center for the Arts

Music in the Museum

Middlebury Museum of Art

Moderated by Peter Hamlin, Christian A. Johnson
Professor of Music

The SageCat DJs—Music for Smartphones and Tablets

Elyse Barnard '15, Greg Bowe '17, Jack Tipper '15.5, Sam Kudman '17, Simba Chakauya '16, Annika Holmlund '15, Cynthia Connard '15

Senior Dance Thesis Lecture Demonstration

Moderated by Christal Brown, Assistant Professor of Dance

Mahaney Center Dance Theatre

Stevie Durocher '15.5, Doug Lecours '15, Sarae Snyder '15, Afi Yellow-Duke '15

Film and Media Culture: Student Films

Moderated by Christian Keathley, Associate Professor of
Film and Media Culture

Mahaney Center for the Arts 125

Beg: A J-term Collaborative Video Project—Hannah Marks '15, Bryce Parsons '15, Conor Grant '15, Zach Wilson '15; *Roommates*—Hannah Marks '15; *American Mercenary*—Ali Salem '16; *Space and Place: The Videographic Essay*—Cade Schreger '15

Emergency 1A: A Play Interpreted and Produced, Twice
Moderated by Jonathan Vandenberg, Visiting Assistant
Professor of Theatre

MCA 232

Melissa MacDonald '15, Hayley Singleton '15, Bjorn Peterson
'15.5, Lucy Killian '15.5, Ben Rose '17.5, Nick Warren '15,
Juliette Gobin '16, Jabari Matthew '17, Greg Swartz '17.5,
Arnav Adhikari '16, Forrest Carroll '15, Tosca Giustini '15.5

A Musical Showcase
Moderated by Greg Vitercik, Professor of Music

Mahaney Center Concert Hall

Debussy—*Le Petite Suite*—Shannia Fu '17, Gloria Breck '18

Fantaisie Pastorale Hongroise—Gioia Pappalardo '16

Quintet—Kaitlin Horan '15, Asa Julien '15, Scott Gilman '15,
York Kitajima '15, Josie Trichka '17

Songs and Arias—Erica Furgiuele '15, Jack Desbois '15,
Hannah Johnston '15.5

Jazz for the Piano—Tevan Goldberg '18

Invalid: A New Musical—Jack Desbois '15

10:00–11:30 p.m.

Session II: Evening Performance

Venus in Fur

Hepburn Zoo (ticketed event)

Caitlin Duffy '15.5, Joelle Mendoza-Etchart '15, Sally Seitz '17,
August Rosenthal '17, Aashna Aggarwal '15.5, Krista Duke '15,
Sally Caruso '15.5, Miguel Castillo '17.5

COMPLETE SCHEDULE—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

Andi Lloyd, Vice President for Academic Affairs,
Dean of Faculty, and Stewart Professor of Biology

9:15 a.m.–5:00 p.m.

Art Exhibits

Johnson Memorial Building

In the Pit: Senior Independent Studio Art Class

Works by Sally Caruso '15.5, Krista Duke '15, Rachel Getz '15.5, Robert Seltzer '15, Isabella Cuglievan '15, Natalia Golubovich '15, Emily Knapp '15, Milou Lammers '15, Shirel Lebovich '15, Jane McCabe '15, Veronica Rodriguez '16.5, Chloe Wilwerding '15, Samantha Wood '15

On the Mezzanine: ART 328 Color Photography

Elisa Berger '16.5, Denisse De La Cruz '17, Charlotte Fairless '15.5, Patrick Freeman '15.5, Lily Ghebrai '15, Mandy Kwan '15, Madeleine Li '15, Hannah Marks '15, Lim la Monica Moua '15, Kristina Pallova '16, Madeleine Raber '16, Kate Robinson '16, Page Song '15, James Spencer '15, Ivan Valladares '17, James Wing '15

9:15–10:30 a.m.

Session I: Oral Presentations

The Language and Politics of Space

Moderated by Tamar Mayer, Professor of Geography

McCardell Bicentennial Hall 104

9:15 a.m. The Curation of Power: Architecture, Ideology, and Political Communication on the National Mall and in Tiananmen Square—Danny Zhang '15

9:35 a.m. The Ridge Perch: Design and Development—Brandon Gell '16, Matthew Gilbert '16.5, Morgan Raith '16.5, Julia Rossen '16

9:55 a.m. Spaces of De-/Reterritorialization: The Epistemological Terrain of Indigenous Land Resistance in Baram, Sarawak, Malaysia—Jia Jun Lee '15

10:15 a.m. A Life Off the Clock: An Ethnography of the Italian Squatters' Movement—Amitai Ben-Abba '15

Small Group Presentations: Microgrids and *Venus in Fur* **Moderated by Carrie Macfarlane, Director of Research and Instruction, Library**

McCardell Bicentennial Hall 216

9:15 a.m. Building Resiliency through Microgrids: The Future of Energy at Middlebury College—Zachary Berzolla '18, Jeannie Bartlett '15, Kara Shaw '15, Lindsay Warne '15, Tevan Goldberg '18

9:55 a.m. *Venus in Fur*: Collaboration in the Artistic Process—Caitlin Duffy '15.5, Joelle Mendoza-Etchart '15, Sally Seitz '17, August Rosenthal '17, Aashna Aggarwal '15.5, Krista Duke '15, Sally Caruso '15.5, Miguel Castillo '17.5

Flickering Identities

Moderated by Michelle McCauley, Professor of Psychology

McCardell Bicentennial Hall 219

9:15 a.m. Invisible Burdens: Promoting Empathy through Art—Charlotte Massey '18.5

9:35 a.m. The Female Death Imperative: Why the Figure of the Beloved Must Die—Jessica Cheung '15

9:55 a.m. Women, Wolves, and the Poetics of Diane di Prima's *Loba*—Anna Mullen '15

10:15 a.m. "Naming the Unnamable": Self-Definition and the Fear of Death in Maupassant's "Le Horla"—Brita Fisher '15

Studies in Modern Political Philosophy

Moderated by Murray Dry, Charles A. Dana Professor of Political Science

McCardell Bicentennial Hall 220

- 9:15 a.m. Studies in Modern Political Philosophy—Zak Fisher '16, Samuel Hage '16, Staci Hill '15, Alexander Khan '17, John Loebbs '16, Israel Mora '16, Filippou Papageorgiou '16, Taylor Custer '15, Bilal Khan '18, Hailey Culhane '15

What Happens in the Classroom

Moderated by Marybeth Nevins, Assistant Professor of Sociology and Anthropology

McCardell Bicentennial Hall 303

- 9:15 a.m. Class, Culture, and Identity at Middlebury Union High School—Rosalie Wright-Lapin '15
- 9:35 a.m. The Classroom as a Site of Resistance: Supporting Teachers in Challenging Traditional Models of Discipline—Kate McCreary '15
- 9:55 a.m. Does Athletic Participation Impact Academic Performance?—Blake Shapskinsky '15
- 10:15 a.m. Apprenticeship in the Japanese Boatshop—Sofia Silverglass '15.5, Edward (Ted) Grace '18, Alden Parker '17

Growing Pains

Moderated by Robert Moeller, Assistant Professor of Psychology

McCardell Bicentennial Hall 311

- 9:15 a.m. Does Cooking Still Rhyme with Women?—Rebecca Hicks '15
- 9:35 a.m. Social Support and Life Satisfaction among Emergent Adults—Ilana Gratch '16.5
- 9:55 a.m. Mingling Friendship and Mingling Blood: The Boy Actor, Marriage, and the Possibility of Heterosocial Friendship in *As You Like It*—Margaret Morris '15
- 10:15 a.m. Extreme Couponing: An Addiction, Disease, or a Way to Make Ends Meet?—Victoria Bigay '15

Reinventing Heritage

Moderated by Louisa Burnham, Associate Professor of History

McCardell Bicentennial Hall 338

- 9:15 a.m. Born for Peace? Article Nine of Japan's Postwar Constitution in Historical Context—Ye Tian '16
- 9:35 a.m. The Past and Present of Convivencia: How Spain Appropriated and Transformed Its Medieval History—Zachary Strauss '15
- 9:55 a.m. On the Periphery: Rachel Whiteread's "Nameless Library" on the *Judenplatz* and the Reinstitution of Jewish Memory in the Cultural Program of Vienna—Emily Knapp '15
- 10:15 a.m. Pentecostalism in Africa—Innocent Mpoki '18

Health, Wellness, and Politics

Moderated by Lesley-Ann Giddings, Assistant Professor of Chemistry and Biochemistry

McCardell Bicentennial Hall 403

- 9:15 a.m. Droning Polio: The Impact of Covert Drone Strikes on Polio Eradication Efforts in Pakistan—Naina Qayyum '15
- 9:35 a.m. Pakistan Versus Polio: An Anthropological Analysis of the Polio Eradication Program in Pakistan—Akasha Sarwar '16, Naina Qayyum '15, Sonia Rodrigues '15
- 9:55 a.m. Role of Oxidative Stress in FUS-ALS Pathogenesis—Roger Winters '17

War, Conflict, and Consequences

Moderated by Erick Gong, Assistant Professor of Economics

McCardell Bicentennial Hall 411

- 9:15 a.m. Religion, Violence, and the Apocalypse: The Case of ISIS—Sarah Cohen '15
- 9:35 a.m. Constantinople to Cairo: The Shifting Strategy of the British Foreign Office on the Ottoman Empire, 1876–82—Joseph Flaherty '15
- 9:55 a.m. The Long Road Home: Evaluating Perceptions of Combat Veterans—Cade Schreger '15
- 10:15 a.m. What Is the Impact of International Coffee Prices on Conflict in Uganda?—Katie Sullivan '15

Exploring Motivations

Moderated by Keegan Callanan, Assistant Professor of Political Science

McCardell Bicentennial Hall 438

- 9:15 a.m. Problem Solving and Learning Capacity of Octopus *Bimaculoides*—Alyssa Fassett-Carman '15
- 9:35 a.m. The Pursuit of Knowledge: Liberal Arts and the Political Regime—Jenna Lifhits '15
- 9:55 a.m. Christianity at the Local Level: An Open-Minded Perspective on Community—Patrick Monette '17
- 10:15 a.m. The Effect of Banning Affirmative Action on Minority Students' Risk Behavior—Zach Weiss '15

10:30–11:15 a.m.

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. Help Not Wanted: The Dismal Science of Youth Unemployment's Scarring Effect—Jordan Glatt '15
2. Lyme Disease in Addison County—Brandon Cushman '16, Roberto Barbier '17
3. Effect of Testosterone and Age on Spatial Memory in Male Rats—Chloe Super '15
4. Architectural Studies Senior Thesis Presentation—Joseph Mutter '15
5. Tethered Abroad: Technology and Communication with Home While Studying Abroad—Kristen Meredith '15, Alexandra Saunders '15, Zoe Kaslow '15
6. Analysis of Multiple Debris Flows in Lake Champlain, Vermont, from Juniper Island to Quaker Smith Point—Piper Rosales-Underbrink '15
7. Dwelling as Intersection—Alix Pauchet '15
8. The Effects of Estradiol on Stages of Neurogenesis in Adult Male Rats—Charlotte Michaelcheck '15, Leslie Panella '15.5
9. What Does It Mean to Dwell?—Kate Eiseman '15

10. The Effect of Nearby Cell Phone Use on Student Comprehension—Daniel Vatnick '15, Bryce Parsons '15, Molly Parizeau '15, Andrew Snow '15
11. Finding Balance on the Burlington North 40—Heather Mooney '15
12. The When, Where, and Why of Shifting Bumblebee (*Bombus* spp.) Communities in Vermont—Spencer Hardy '16.5
13. The Affordable Care Act and Its Impact on Insurance Coverage and Health Status of Young Adults—Alexander Braun '15
14. To Dwell—Jane McCabe '15
15. *Vampire*: Costume Design—Krista Duke '15
16. Experimental Animation—Krista Duke '15
17. High-Resolution Chromatin Immunoprecipitation (ChIP) Sequencing Reveals Novel Binding Targets and Prognostic Role for SOX11 in Mantle Cell Lymphoma—Tianfang He '16
18. Effect of Salt Marsh Restoration on Early Stages of Leaf Litter Decomposition—Ben Henry '16
19. Dysphagia after Nissen Fundoplication: Is Preoperative Esophageal Motility a Factor?—Kayvon Sharif '16
20. What Is It to Dwell? A Design Project on the Burlington Waterfront—Page Song '15
21. Optogenetic Control of Neurotransmitter Transport in *Caenorhabditis Elegans*—Jesse Novak '15
22. What Does It Mean to Dwell?—Henry Miles '15.5
23. The Old Lyme Sculpture Museum: A Building of Earth and Water—Gioia Pappalardo '16
24. Remembering Neighborhood Change through Google Street View—Robert Seltzer '15
25. A Web Interface for the Middlebury Stereo Evaluation v.3—Duncan Levear '15
26. Experience in Traditional Japanese Boatbuilding—Maxwell Shaw-Jones '17.5, Milo Stanley '17.5, Prasanna Vankina '18, Alden Parker '17, Sierra Moen '17.5

11:15 a.m.–12:30 p.m.

Session II: Oral Presentations

Artistic Expressions

Moderated by Robert Schine, Curt and Else Silberman Professor of Jewish Studies

McCardell Bicentennial Hall 104

- 11:15 a.m. How I Composed My First String Quartet Piece—York Kitajima '15
- 11:35 a.m. Klezmer (The Yidl mitn Fidl and His Entourage)—Dan Matei Epure '16
- 11:55 a.m. What Can Literature Teach Us about Liberalism? Analyzing Lionel Trilling's *The Middle of the Journey*—Harry Cohen '15
- 12:15 p.m. "Perverted Little Monsters": Comic Books, Children's Crime, and Conformity in the Early Cold War, 1945–55—Laura McConney '15

Individuals at the Margins

Moderated by Kevin Murungi '01, Keynote Speaker, and Sarah Stroup, Assistant Professor of Political Science

McCardell Bicentennial Hall 216

- 11:15 a.m. "Women Like You, We Want to Help You." Examining the Relationship between Trafficked Persons and Law Enforcement in New York City—Firas Nasr '15
- 11:35 a.m. A Violent Line: Migrant Death in the US-Mexico Borderlands, 1942 to Today—Katie Hill '15
- 11:55 a.m. Flight in the Middle East: A Regional Perspective on Refugee Flows—Bree Baccaglioni '15
- 12:15 p.m. Economic Growth and Urban-Rural Income Inequality in China Since the Gaige Kaifang (1978–2013)—Karina Toy '17, William Weightman '17

Expressions of Culture

Moderated by Rebecca Tiger, Assistant Professor of Sociology and Anthropology

McCardell Bicentennial Hall 219

- 11:15 a.m. String Quartet No. 1, "El Hambre Forzado"—Colin Martin '15
- 11:35 a.m. "Born Shinto, Marry Christian, Die Buddhist?" Deconstructing the Myth of Religiosity in Aging Japan—Holly Hummer '15
- 11:55 a.m. Koshering the South: The Jews of Dixie—Zachary Strauss '15
- 12:15 p.m. Complicit or Co-Opted?: Feminism, Neoliberalism, and Sheryl Sandberg's *Lean In*—Megan Ernst '15

Gender: Determination, Love, Sex, and Health

Moderated by Sue Halpern, Scholar in Residence of English and American Literatures

McCardell Bicentennial Hall 220

- 11:15 a.m. Ties that Bind: HIV and Gender Inequality in Sub-Saharan Africa—Thomas Hitz '15
- 11:35 a.m. Investigating a Novel Indicator of Endocrine Disruption at the Population Level—Mary Richards '15
- 11:55 a.m. E-recting Masculinities: Electronic Support Groups and the Development of the Biomedical Male—Rod Abhari '15
- 12:15 p.m. Elderly Love Stories—Sabhyta Sabharwal '15

Marginalization and the Marginalized

Moderated by James Davis, Professor of Religion

McCardell Bicentennial Hall 303

- 11:15 a.m. A Sky Filled with Possibility—Catherine Costley '15
- 11:35 a.m. Urban Refugees: Living the Gap between Development and Emergency Assistance—Moria Sloan '15
- 11:55 a.m. Social Mobility of Chinese Migrant Workers: Present and Future—Eun Ah Choi '16
- 12:15 p.m. Imagining Freedom: Buddhist Nationalism and Decolonization in Ceylon—Iraj de Alwis '15

Developmental Entanglements

Moderated by Mez Baker-Medard, Assistant Professor of Environmental Studies

McCardell Bicentennial Hall 311

- 11:15 a.m. Predicting Energy Crises: An Entropic Approach to Development—Joshua Kruskal '15
- 11:35 a.m. Assessing Environmental Policy in Afghanistan through Water Pollution: What Afghan Citizens and the Government Can Do to Improve the Environmental State in Afghanistan—Marjeela Basij-Rasikh '15
- 11:55 a.m. Development in Practice: Exploring and Applying Concepts in Rwanda—Karen Liu '15, Petr Knor '15, Arnel Nibasumba '16
- 12:15 p.m. Information and Exclusion: Barriers to Rural Development in the Peruvian Andes—Forest Jarvis '15

Crossing National Boundaries

Moderated by Don Wyatt, John M. McCardell Jr. Distinguished Professor of History

McCardell Bicentennial Hall 338

- 11:15 a.m. *Interpretatio* and Divine Syncretism in Roman Britain 55 BC–AD 300—Scott Collins '15
- 11:35 a.m. William Sage Woolworth Jr. and the American Board in Atatürk's Turkey—Davis Woolworth '15
- 11:55 a.m. "California, Here He Comes!": Nikita Khrushchev's 1959 Visit to the Golden State—Robert Silverstein '15

Food: Culture, Access, and Politics

Moderated by Ellen Oxfeld, Gordon Schuster Professor of Anthropology

McCardell Bicentennial Hall 403

- 11:15 a.m. Dykochondriac? Lesbian Women and Experiences of Food Allergy—Katharine Linder '15
- 11:35 a.m. Eat the "Right" Thing: Perceptions of Food Justice and Gentrification in Central Brooklyn—Afi Yellow-Duke '15
- 11:55 a.m. Madagascar's Shark Fisheries and Their Role in the Global Shark Fin Trade—Jake Faber '16.5
- 12:15 p.m. Real Food at Middlebury: Investing in the Local Landscape—Lucy Reading '17, Natalie Valentin '15, Nathan Weil '15

Exploring the Planet

Moderated by Patricia Manley, Professor of Geology

McCardell Bicentennial Hall 411

- 11:15 a.m. Palynological Analysis of a Lake Champlain Sea Peat Layer, St. Albans, Vermont—Ellen Taylor '15
- 11:35 a.m. Predicting Plant-Pollinator Interactions in Montane Meadows—Kaitlin Horan '15
- 11:55 a.m. Environmentalism in Vonnegut—Kevin Wood '15
- 12:15 p.m. Integer Quantum Hall Effect in a GaAs Heterostructure—Zack Isaacs '15.5

Writing Race and Class

Moderated by Catharine Wright, Lecturer and Director of the Writing Program

McCardell Bicentennial Hall 438

- 11:15 a.m. Writing Race and Class—Isabelle Shallcross '16, Dwayne Scott '17, Andrew Wolfley-Payan '15.5, Maya Doig-Acuna '16, Celeste Allen '16

12:30–1:30 p.m.

Lunch for Presenters, Sponsors & Moderators

Special presenters' 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

Technological Innovations:

Advantages and Disadvantages

Moderated by Peter Hamlin, Christian A. Johnson Professor of Music

McCardell Bicentennial Hall 104

- 1:30 p.m. This Studio Is an Instrument—Dan Matei Epure '16
- 1:50 p.m. Building a Laser-Scanning Microscope—Colin McIntyre '15
- 2:10 p.m. To Spritz or Not to Spritz: The Efficacy of Novel Speed-Reading Software—Andrew Catomeris '15
- 2:30 p.m. Unplug Your Marriage: The Effect of Residential Internet Use on Marital Stability—Xiner Liu '15

Queer Places

Moderated by Chong-suk Han, Assistant Professor of Sociology and Anthropology

McCardell Bicentennial Hall 216

- 1:30 p.m. Homosexuality and Modern Christianity—Jonathan O'Dell '18
- 1:50 p.m. "No Place For Us Here": The Untold Stories of Transgender Moroccans—Olivia Allen '15
- 2:10 p.m. Queerness and Rurality, Identity and Migration—David Yedid '15
- 2:30 p.m. #nohomo: A Map of Homophobic Tweets in the United States—Bekah Moon '15

Narrative Innovations

Moderated by Will Nash, Professor of American Studies and English and American Literatures

McCardell Bicentennial Hall 219

- 1:30 p.m. A Study in Watson: Narration, Translation, and Detection in Sherlock Holmes—Emma Eastwood-Paticchio '15
- 1:50 p.m. A Reading of Paper Cutouts: Readings and Misreadings—Joy Zhu '17

- 2:10 p.m. Poet in the Waste Land: Fractured Narration as a Response to the City—Sarah Baldwin '15
- 2:30 p.m. Probillmatic: A Continuation of Livin' for the City—Olamide Fadaïro '15

Identity of the Artist

Moderated by Emmie Donadio, Associate Director and Chief Curator, Museum of Art

McCardell Bicentennial Hall 220

- 1:30 p.m. Portrait of a Man: Govaert Flinck and the Rembrandt School—Carolina McGarity '16.5
- 1:50 p.m. Wandering Towards Molasses: Navigating the Boundaries between Photography, Objectification, and Pilgrimage in Kara Walker's "A Subtlety"—Lucy Killian '15.5
- 2:10 p.m. Robin Williams: The Psychologist's Shadow—Eric Benoit '16
- 2:30 p.m. Dylan Redford (Official) Project—Dylan Redford '15

Provocations and Allegiances

Moderated by Bertram Johnson, Associate Professor of Political Science

McCardell Bicentennial Hall 303

- 1:30 p.m. A Comparative Study of Occupy Movements in Hong Kong and Taiwan—Elizabeth Keller '15
- 1:50 p.m. Impartial, Not Neutral: An Analysis of the *North-China Herald*, April-June 1919—Nicholas Orr '15
- 2:10 p.m. Corporate Philanthropy: A Global Civil Society?—Roy Wang '15
- 2:30 p.m. Subversive and Anti-Societal Thought in Táng Short Stories—Josiah Stork '15

Methods and Models

Moderated by AnGayle Vasiliou, Assistant Professor of Chemistry

McCardell Bicentennial Hall 311

- 1:30 p.m. Shall or May Carry: An Empirical Study on How Concealed-Carry Laws Affect Crime—Stephen Paolillo '15
- 1:50 p.m. Sociocultural Obstacles in Linguistic Interviews: A Study of Tu-você Variation in Brazilian Portuguese—Mark Balderston '15.5
- 2:10 p.m. Simulating Gauge Invariant Lattice Field Theories—Spencer Egan '15.5

- 2:30 p.m. Effective Velocity: A Middlebury College Baseball Analytics Club Investigation—Kevin Tenenbaum '15, Fiona Maloney-McCrystle '17, Mason Hinckley '17, Cameron Toh '17, John Geilfuss '17

Civil War Artifacts

Moderated by Ellery Foutch, Assistant Professor of American Studies

McCardell Bicentennial Hall 338

- 1:30 p.m. Displaying Civil War Era Artifacts—Katie Sullivan '15, Taylor Pierce '15, Charlotte Dewey '15, Hope Kuchinsky '17

Intimate Gone Public

Moderated by Brett Millier, Reginald L. Cook Professor of American Literature

McCardell Bicentennial Hall 403

- 1:30 p.m. Paired Eating in the Rear Courtyard: The Normalization of Homoerotic Behavior in Three of Li Yu's Works—Jacqueline Husin '15
- 1:50 p.m. Imagining Identity: Women Writing Women in Early 20th-Century American Literature—Rachel Liddell '15
- 2:10 p.m. Linguistic Varieties in the Egyptian Short Story: A Brief Examination of Yūsuf Idrīs' use of *Āmmiyya* in *Arakhaṣ layālī*—Mohamed Hussein '17
- 2:30 p.m. Beyond Contraception and Corporations: Hobby Lobby's Implications for the Relationship between Religion and Government in America—Maxmarie Wilmoth '15

Storytelling: Processes and Politics

Moderated by Matthew Kimble, Associate Professor of Psychology

McCardell Bicentennial Hall 411

- 1:30 p.m. Expressive Writing and Language Fluency: Implications for First-Year College Students—Rita Pfeiffer '15, Kaitlyn Kovalanka '17
- 1:50 p.m. Looking at Vermont: How Abenaki History, Culture, and Politics Are Represented in Local Museums—Alexa Manley '15
- 2:10 p.m. Finding Anne's Voice: Free Indirect Speech and Narration in Jane Austen's *Persuasion*—Isabelle Dietz '15
- 2:30 p.m. How God Remembers the 5th of November: A Critique of Paul's Cross Sermons on the Gunpowder Plot and Its Implications Today—David Park '15

Oratory and the Liberal Arts

Moderated by Dana Yeaton, Visiting Assistant

Professor of Theatre

McCardell Bicentennial Hall 438

1:30 p.m. Oratory and the Liberal Arts—Nolan Ellsworth '17, Delaney Moran '18, Brenna Christensen '17, William Knox '17

2:45–3:30 p.m.

Poster Presentations: Group 2 and Refreshments

McCardell Bicentennial Great Hall

27. The Exploration of an Anchor—Carter Makin '15
28. PTSD, Depression, and Negative Appraisals—Marea Hatheway '15
29. Assessing Campus Fitness: Comparing Blood Lactate Levels of College-Aged Athletes and Nonathletes—Summer Spillane '15
30. STEM Innovation Project 2014: Building an Autonomous Aquatic Research Vessel for Monitoring of Cyanobacterial Spatial Distribution—Sarah Hemphill '16, Allison Forrest '15, Carter Merenstein '16, Eli Feinberg '16, Alec Drobac '16, Chiara Lawrence '15.5, Erin Birdsall '16, Willie Goodman '16
31. The Treatment Fix: Studying Treatment's Impact on Societal Costs of Drug Abuse—Martha Gilchrist '15
32. Paleo-erosion Rates in the Eastern Andes—Perri Silverhart '16.5, Drew Gorin '16
33. A Modern Take on Cave Dwelling—Xiner Liu '15
34. Creating a 3D Digital Microscope—Jonathan Ballard '15
35. Dwelling: Protection and Liberation—Eliza Margolin '15.5
36. Characterization of Calcineurin A Alpha Expression Along the Distal Nephron—Edward (Ted) Grace '18
37. Shelter Is...—James Spencer '15
38. Effects of Bisphenol-A on Bovine Granulosa Cell Steroidogenesis and Viability—Alexa Manley '15
39. Do Bikeshare Systems Affect Congestion?—Page Song '15
40. Dwelling Is That Which Allows for Being—Bjorn Peterson '15.5
41. Would You Still Hire Me? The Role of Social Media as a Factor in Hiring Decisions—Lim la Monica Moua '15, Francesca Giammalva '15.5, Catherine Fowler '15
42. Articulation: The Spaces In-Between—Phoebe Howe '15
43. Unpacking Normal—Taylor Pierce '15
44. Home Planet Architecture—Natalia Golubovich '15

45. Colloidal Sediment in the Uinta Range, Utah—Riley Ebel '15.5

46. A Private Gathering—Sivhanyaa Kamalanathan '15

47. Dinning—Ivan Valladares '17

48. Spectral Energy Distributions and Eddington Ratios of Red Quasars—Adela Habib '15

3:30–4:45 p.m.

Session IV: Oral Presentations

Social and Personal Empowerment

Moderated by Jonathan Miller-Lane, Associate Professor of Education

McCardell Bicentennial Hall 216

3:30 p.m. Are We Still Free to Be?—Emily Knapp '15

3:50 p.m. From Kegan to Human Rights? Exploring How Psychological Theories of Development Can Impact Human Rights Theory and Practice—Firas Nasr '15

4:10 p.m. Ablism and the Chronic Knower: Epistemic Justice for Illness and Disability—Marina Dimarco '15

4:30 p.m. Dance Diplomacy: A Cross-Cultural Movement Exchange—Andrew Pester '17, Amanda Kimm '17, Vladimir Kremenovic '17, Chelsea Chang '18, Miguel Castillo '17.5, Vanessa Dikuyama '18, Amanda Neira '17, Akhila Khanna '17

Creation and Generation

Moderated by Stacy Reardon, Research and Instruction Librarian

McCardell Bicentennial Hall 219

3:30 p.m. Examining the Potential Implications of Rhythmically Constrained Speech Production in Typically Developing Six-Year-Old Children—Rita Pfeiffer '15

3:50 p.m. Art, Math, and Computers: A Guide to the Mandelbrot Set—Jake Wood '15

4:10 p.m. Looped Animations from "Oil Painting: Color and Movement"—Cordelia Prouvost '17, Conor Grant '15, Adam Kaminsky '16, Kelsey Domoracki '15, Rebecca Rose '16

Changing Cultural Landscapes

Moderated by Eliza Garrison, Associate Professor of History of Art and Architecture

McCardell Bicentennial Hall 220

- 3:30 p.m. Transsexuality in the Islamic Republic of Iran—Zeke Caceres '15
- 3:50 p.m. Japanese Youth Politics in the Wake of Disaster: Reevaluating Tokyo and Tohoku Social and Political Landscapes—Timothy Fraser '16
- 4:10 p.m. Taipei's Chiang Kai-shek Memorial and the Question of Modernity—Wentao Zhai '17
- 4:30 p.m. The Heartland Project—Alexa Beyer '15.5

Environmental Problems and Solutions

Moderated by Molly Costanza-Robinson, Associate Professor of Chemistry, Biochemistry and Environmental Studies

McCardell Bicentennial Hall 303

- 3:30 p.m. Peak Shaving Strategies and Optimization of Economic, Social, and Environmental Goals at Middlebury College—Lindsay Warne '15
- 3:50 p.m. Is Grass-Fed Beef Healthier for the Atmosphere?—Nico Kaminow '15
- 4:10 p.m. Paleoseismology of Hat Creek Fault, Northern California—Abra Atwood '15
- 4:30 p.m. Reducing Greenhouse Gas Emissions through Regulation: The EPA, the States, and the Clean Power Plan—Teddy Smyth '15

Reflections of the Economy

Moderated by Leticia Arroyo Abad, Assistant Professor of Economics and International Politics and Economics

McCardell Bicentennial Hall 311

- 3:30 p.m. The Economics of Popular Music: Exchange and Monetary Gain in the Tanzanian Bongo Flava Music Business—Lucas Avidan '15
- 3:50 p.m. Alexander Hamilton's Political Economy—Taylor Custer '15
- 4:10 p.m. Argentina's Dólar Blue: A Black Market for Foreign Exchange as a Response to Macroeconomic Policy—Cassie Coash '15
- 4:30 p.m. Income-Related Inequalities and Individual-Level Mental Health Outcomes—David Freiberg '15

Perils of the Public Person

Moderated by Thomas Moran, John D. Berninghausen Professor of Chinese

McCardell Bicentennial Hall 403

- 3:30 p.m. Exile and Eremism—Clara Fuchshuber '15
- 3:50 p.m. Hooligan Politics of Yin and Yang: Wang Xiaobo and Post-1989 Chinese Public Intellectuals—William Starkoff '15
- 4:10 p.m. *Hybris* and the Necessity for Laws Protecting Reputation in Ancient Athens—Josh Berlowitz '16
- 4:30 p.m. Modern Mobility: Flight Attendant Identity Construction, Presentation, and Performance in the Globalized Context—Michael Bernstein '15

Race Relations: The Political and the Personal

Moderated by Jim Ralph, Rehnquist Professor of American History and Culture

McCardell Bicentennial Hall 411

- 3:30 p.m. The Abandoned Arena: Race Relations in the Roosevelt White House (1901-09)—Dylan Igoe '15
- 3:50 p.m. Mothering While White: Moments of Race Experienced by White Mothers Raising Nonwhite Daughters—India Huff '15
- 4:10 p.m. The Impact of the Interstate Highway System on Urban Segregation—Meade Atkeson '15
- 4:30 p.m. Seeing Uruguayan Modernism through the Myth of Equality—Yashu Zhang '15.5

4:45–5:30 p.m.

Closing Reception

McCardell Bicentennial Great Hall

7:30 & 10:00 p.m.

Session V: Evening Performances

Venus in Fur

Hepburn Zoo (ticketed event)

Caitlin Duffy '15.5, Joelle Mendoza-Etchart '15, Sally Seitz '17, August Rosenthal '17, Aashna Aggarwal '15.5, Krista Duke '15, Sally Caruso '15.5, Miguel Castillo '17.5

PRESENTER INDEX

Alphabetical by Name

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

A

Abhari, Rod '15: E-recting Masculinities: Electronic Support Groups and the Development of the Biomedical Male, Friday—MBH 220 at 11:55 a.m.

Adhikari, Arnav '16: *Emergency 1A: A Play Interpreted and Produced, Twice*, Thursday—MCA 232 at 8:30 p.m.

Aggarwal, Aashna '15.5: *Venus in Fur*, Thursday (10 p.m.) and Friday (7:30 and 10:00 p.m.)—Hepburn Zoo; *Venus in Fur: Collaboration in the Artistic Process*, Friday—MBH 216 at 9:55 a.m.

Allen, Celeste '16: *Writing Race and Class*, Friday—MBH 438 at 11:15 a.m.

Allen, Olivia '15: “No Place For Us Here”: The Untold Stories of Transgender Moroccans, Friday—MBH 216 at 1:50 p.m.

Atkeson, Meade '15: *The Impact of the Interstate Highway System on Urban Segregation*, Friday—MBH 411 at 4:10 p.m.

Atwood, Abra '15: *Paleoseismology of Hat Creek Fault, Northern California*, Friday—MBH 303 at 4:10 p.m.

Avidan, Lucas '15: *The Economics of Popular Music: Exchange and Monetary Gain in the Tanzanian Bongo Flava Music Business*, Friday—MBH 311 at 3:30 p.m.

B

Baccaglini, Bree '15: *Flight in the Middle East: A Regional Perspective on Refugee Flows*, Friday—MBH 216 at 11:55 a.m.

Balderston, Mark '15.5: *Sociocultural Obstacles in Linguistic Interviews: A Study of Tu-você Variation in Brazilian Portuguese*, Friday—MBH 311 at 1:50 p.m.

Baldwin, Sarah '15: *Poet in the Waste Land: Fractured Narration as a Response to the City*, Friday—MBH 219 at 2:10 p.m.

Ballard, Jonathan '15: *Creating a 3D Digital Microscope*, Poster 34, Friday—MBH Great Hall at 2:45 p.m.

Barbier, Roberto '17: *Lyme Disease in Addison County*, Poster 2, Friday—MBH Great Hall at 10:30 a.m.

Barnard, Elyse '15: *The SageCat DJs—Music for Smartphones and Tablets*, Thursday—MCA Museum of Art at 8:30 p.m.

Bartlett, Jeannie '15: *Building Resiliency through Microgrids: The Future of Energy at Middlebury College*, Friday—MBH 216 at 9:15 a.m.

Basij-Rasikh, Marjeela '15: *Assessing Environmental Policy in Afghanistan through Water Pollution: What Afghan Citizens and the Government Can Do to Improve the Environmental State in Afghanistan*, Friday—MBH 311 at 11:35 a.m.

Ben-Abba, Amitai '15: *A Life Off the Clock: An Ethnography of the Italian Squatters' Movement*, Friday—MBH 104 at 10:15 a.m.

Benoit, Eric '16: *Robin Williams: The Psychologist's Shadow*, Friday—MBH 220 at 2:10 p.m.

Berlowitz, Josh '16: *Hybris and the Necessity for Laws Protecting Reputation in Ancient Athens*, Friday—MBH 403 at 4:10 p.m.

Bernstein, Michael '15: *Modern Mobility: Flight Attendant Identity Construction, Presentation, and Performance in the Globalized Context*, Friday—MBH 403 at 4:30 p.m.

Bertzolla, Zachary '18: *Building Resiliency through Microgrids: The Future of Energy at Middlebury College*, Friday—MBH 216 at 9:15 a.m.

Beyer, Alexa '15.5: *The Heartland Project*, Friday—MBH 220 at 4:30 p.m.

Bigay, Victoria '15: *Extreme Couponing: An Addiction, Disease, or a Way to Make Ends Meet?*, Friday—MBH 311 at 10:15 a.m.

Birdsall, Erin '16: STEM Innovation Project 2014: Building an Autonomous Aquatic Research Vessel for Monitoring of Cyanobacterial Spatial Distribution, Poster 30, Friday—MBH Great Hall at 2:45 p.m.

Bowe, Greg '17: The SageCat DJs—Music for Smartphones and Tablets, Thursday—MCA Museum of Art at 8:30 p.m.

Braun, Alexander '15: The Affordable Care Act and Its Impact on Insurance Coverage and Health Status of Young Adults, Poster 13, Friday—MBH Great Hall at 10:30 a.m.

Breck, Gloria '18: Debussy—*Le Petite Suite*, Thursday—MCA Concert Hall at 8:30 p.m.

C

Caceres, Zeke '15: Transsexuality in the Islamic Republic of Iran, Friday—MBH 220 at 3:30 p.m.

Carroll, Forrest '15: *Emergency 1A: A Play Interpreted and Produced, Twice*, Thursday—MCA 232 at 8:30 p.m.

Caruso, Sally '15.5: *Venus in Fur*, Thursday (10 p.m.) and Friday (7:30 and 10:00 p.m.)—Hepburn Zoo; *Venus in Fur: Collaboration in the Artistic Process*, Friday—MBH 216 at 9:55 a.m.

Castillo, Miguel '17.5: *Venus in Fur*, Thursday (10 p.m.) and Friday (7:30 and 10:00 p.m.)—Hepburn Zoo; *Venus in Fur: Collaboration in the Artistic Process*, Friday—MBH 216 at 9:55 a.m.; *Dance Diplomacy: A Cross-Cultural Movement Exchange*, Friday—MBH 216 at 4:30 p.m.

Catomeris, Andrew '15: To Spritz or Not to Spritz: The Efficacy of Novel Speed-Reading Software, Friday—MBH 104 at 2:10 p.m.

Chakauya, Simba '16: The SageCat DJs—Music for Smartphones and Tablets, Thursday—MCA Museum of Art at 8:30 p.m.

Chang, Chelsea '18: *Dance Diplomacy: A Cross-Cultural Movement Exchange*, Friday—MBH 216 at 4:30 p.m.

Cheung, Jessica '15: The Female Death Imperative: Why the Figure of the Beloved Must Die, Friday—MBH 219 at 9:35 a.m.

Choi, Eun Ah '16: Social Mobility of Chinese Migrant Workers: Present and Future, Friday—MBH 303 at 11:55 a.m.

Christensen, Brenna '17: Oratory and the Liberal Arts, Friday—MBH 438 at 1:30 p.m.

Coash, Cassie '15: Argentina's Dólar Blue: A Black Market for Foreign Exchange as a Response to Macroeconomic Policy, Friday—MBH 311 at 4:10 p.m.

Cohen, Harry '15: What Can Literature Teach Us about Liberalism? Analyzing Lionel Trilling's *The Middle of the Journey*, Friday—MBH 104 at 11:55 a.m.

Cohen, Sarah '15: Religion, Violence, and the Apocalypse: The Case of ISIS, Friday—MBH 411 at 9:15 a.m.

Collins, Scott '15: *Interpretatio* and Divine Syncretism in Roman Britain 55 BC-AD 300, Friday—MBH 338 at 11:15 a.m.

Connard, Cynthia '15: The SageCat DJs—Music for Smartphones and Tablets, Thursday—MCA Museum of Art at 8:30 p.m.

Costley, Catherine '15: A Sky Filled with Possibility, Friday—MBH 303 at 11:15 a.m.

Culhane, Hailey '15: Studies in Modern Political Philosophy, Friday—MBH 220 at 9:15 a.m.

Cushman, Brandon '16: Lyme Disease in Addison County, Poster 2, Friday—MBH Great Hall at 10:30 a.m.

Custer, Taylor '15: Studies in Modern Political Philosophy, Friday—MBH 220 at 9:15 a.m.; Alexander Hamilton's Political Economy, Friday—MBH 311 at 3:50 p.m.

D

de Alwis, Iraj '15: Imagining Freedom: Buddhist Nationalism and Decolonization in Ceylon, Friday—MBH 303 at 12:15 p.m.

Desbois, Jack '15: *Invalid: A New Musical*, Thursday—MCA Concert Hall at 8:30 p.m.; *Songs and Arias*, Thursday—MCA Concert Hall at 8:30 p.m.

Dewey, Charlotte '15: Displaying Civil War Era Artifacts, Friday—MBH 338 at 1:30 p.m.

Dietz, Isabelle '15: Finding Anne's Voice: Free Indirect Speech and Narration in Jane Austen's *Persuasion*, Friday—MBH 411 at 2:10 p.m.

Dikuyama, Vanessa '18: *Dance Diplomacy: A Cross-Cultural Movement Exchange*, Friday—MBH 216 at 4:30 p.m.

Dimarco, Marina '15: Ablism and the Chronic Knower: Epistemic Justice for Illness and Disability, Friday—MBH 216 at 4:10 p.m.

Doig-Acuna, Maya '16: Writing Race and Class, Friday—MBH 438 at 11:15 a.m.

Domoracki, Kelsey '15: Looped Animations from “Oil Painting: Color and Movement,” Friday—MBH 219 at 4:10 p.m.

Drobac, Alec '16: STEM Innovation Project 2014: Building an Autonomous Aquatic Research Vessel for Monitoring of Cyanobacterial Spatial Distribution, Poster 30, Friday—MBH Great Hall at 2:45 p.m.

Duffy, Caitlin '15.5: *Venus in Fur*, Thursday (10 p.m.) and Friday (7:30 and 10:00 p.m.)—Hepburn Zoo; *Venus in Fur: Collaboration in the Artistic Process*, Friday—MBH 216 at 9:55 a.m.

Duke, Krista '15: *Venus in Fur*, Thursday (10 p.m.) and Friday (7:30 and 10:00 p.m.)—Hepburn Zoo; *Venus in Fur: Collaboration in the Artistic Process*, Friday—MBH 216 at 9:55 a.m.; Experimental Animation, Poster 16, Friday—MBH Great Hall at 10:30 a.m.; *Vampire: Costume Design*, Poster 15, Friday—MBH Great Hall at 10:30 a.m.

Durocher, Stevie '15.5: Senior Dance Thesis Lecture Demonstration: Open Rehearsal, Thursday—MCA Dance Theatre at 8:30 p.m.

E

Eastwood-Paticchio, Emma '15: A Study in Watson: Narration, Translation, and Detection in Sherlock Holmes, Friday—MBH 219 at 1:30 p.m.

Ebel, Riley '15.5: Colloidal Sediment in the Uinta Range, Utah, Poster 45, Friday—MBH Great Hall at 2:45 p.m.

Egan, Spencer '15.5: Simulating Gauge Invariant Lattice Field Theories, Friday—MBH 311 at 2:10 p.m.

Eiseman, Kate '15: What Does It Mean to Dwell?, Poster 9, Friday—MBH Great Hall at 10:30 a.m.

Ellsworth, Nolan '17: Oratory and the Liberal Arts, Friday—MBH 438 at 1:30 p.m.

Epure, Dan Matei '16: Klezmer (The Yidl mitn Fidl and His Entourage), Friday—MBH 104 at 11:35 a.m.; This Studio Is an Instrument, Friday—MBH 104 at 1:30 p.m.

Ernst, Megan '15: Complicit or Co-Opted?: Feminism, Neoliberalism, and Sheryl Sandberg’s *Lean In*, Friday—MBH 219 at 12:15 p.m.

F

Faber, Jake '16.5: Madagascar’s Shark Fisheries and Their Role in the Global Shark Fin Trade, Friday—MBH 403 at 11:55 a.m.

Fadairo, Olamide '15: Probillmatic: A Continuation of Livin’ for the City, Friday—MBH 219 at 2:30 p.m.

Fassett-Carman, Alyssa '15: Problem Solving and Learning Capacity of Octopus *Bimaculoides*, Friday—MBH 438 at 9:15 a.m.

Feinberg, Eli '16: STEM Innovation Project 2014: Building an Autonomous Aquatic Research Vessel for Monitoring of Cyanobacterial Spatial Distribution, Poster 30, Friday—MBH Great Hall at 2:45 p.m.

Fisher, Brita '15: “Naming the Unnamable”: Self-Definition and the Fear of Death in Maupassant’s “Le Horla,” Friday—MBH 219 at 10:15 a.m.

Fisher, Zak '16: Studies in Modern Political Philosophy, Friday—MBH 220 at 9:15 a.m.

Flaherty, Joseph '15: Constantinople to Cairo: The Shifting Strategy of the British Foreign Office on the Ottoman Empire, 1876–82, Friday—MBH 411 at 9:35 a.m.

Forrest, Allison '15: STEM Innovation Project 2014: Building an Autonomous Aquatic Research Vessel for Monitoring of Cyanobacterial Spatial Distribution, Poster 30, Friday—MBH Great Hall at 2:45 p.m.

Fowler, Catherine '15: Would You Still Hire Me? The Role of Social Media as a Factor in Hiring Decisions, Poster 41, Friday—MBH Great Hall at 2:45 p.m.

Fraser, Timothy '16: Japanese Youth Politics in the Wake of Disaster: Reevaluating Tokyo and Tohoku Social and Political Landscapes, Friday—MBH 220 at 3:50 p.m.

Freiberg, David '15: Income-Related Inequalities and Individual-Level Mental Health Outcomes, Friday—MBH 311 at 4:30 p.m.

Fu, Shannia '17: Debussy—*Le Petite Suite*, Thursday—MCA Concert Hall at 8:30 p.m.

Fuchshuber, Clara '15: Exile and Eremitism, Friday—MBH 403 at 3:30 p.m.

Furguele, Erica '15: Songs and Arias, Thursday—MCA Concert Hall at 8:30 p.m.

G

Geilfuss, John '17: Effective Velocity: A Middlebury College Baseball Analytics Club Investigation, Friday—MBH 311 at 2:30 p.m.

Gell, Brandon '16: The Ridge Perch: Design and Development, Friday—MBH 104 at 9:35 a.m.

Giammalva, Francesca '15.5: Would You Still Hire Me? The Role of Social Media as a Factor in Hiring Decisions, Poster 41, Friday—MBH Great Hall at 2:45 p.m.

Gilbert, Matthew '16.5: The Ridge Perch: Design and Development, Friday—MBH 104 at 9:35 a.m.

Gilchrist, Martha '15: The Treatment Fix: Studying Treatment's Impact on Societal Costs of Drug Abuse, Poster 31, Friday—MBH Great Hall at 2:45 p.m.

Gilman, Scott '15: Quintet, Thursday—MCA Concert Hall at 8:30 p.m.

Giustini, Tosca '15.5: *Emergency 1A*: A Play Interpreted and Produced, Twice, Thursday—MCA 232 at 8:30 p.m.

Glatt, Jordan '15: Help Not Wanted: The Dismal Science of Youth Unemployment's Scarring Effect, Poster 1, Friday—MBH Great Hall at 10:30 a.m.

Gobin, Juliette '16: *Emergency 1A*: A Play Interpreted and Produced, Twice, Thursday—MCA 232 at 8:30 p.m.

Goldberg, Tevan '18: Jazz for the Piano, Thursday—MCA Concert Hall at 8:30 p.m.; Building Resiliency through Microgrids: The Future of Energy at Middlebury College, Friday—MBH 216 at 9:15 a.m.

Golubovich, Natalia '15: Home Planet Architecture, Poster 44, Friday—MBH Great Hall at 2:45 p.m.

Goodman, Willie '16: STEM Innovation Project 2014: Building an Autonomous Aquatic Research Vessel for Monitoring of Cyanobacterial Spatial Distribution, Poster 30, Friday—MBH Great Hall at 2:45 p.m.

Gorin, Drew '16: Paleo-erosion Rates in the Eastern Andes, Poster 32, Friday—MBH Great Hall at 2:45 p.m.

Grace, Edward (Ted) '18: Apprenticeship in the Japanese Boatshop, Friday—MBH 303 at 10:15 a.m.; Characterization of Calcineurin A Alpha Expression Along the Distal Nephron, Poster 36, Friday—MBH Great Hall at 2:45 p.m.

Grant, Conor '15: *Beg*: A J-term Collaborative Video Project, Thursday—MCA 125 at 8:30 p.m.; Looped Animations from "Oil Painting: Color and Movement," Friday—MBH 219 at 4:10 p.m.

Gratch, Ilana '16.5: Social Support and Life Satisfaction among Emergent Adults, Friday—MBH 311 at 9:35 a.m.

H

Habib, Adela '15: Spectral Energy Distributions and Eddington Ratios of Red Quasars, Poster 48, Friday—MBH Great Hall at 2:45 p.m.

Hage, Samuel '16: Studies in Modern Political Philosophy, Friday—MBH 220 at 9:15 a.m.

Hardy, Spencer '16.5: The When, Where, and Why of Shifting Bumblebee (*Bombus* spp.) Communities in Vermont, Poster 12, Friday—MBH Great Hall at 10:30 a.m.

Hatheway, Marea '15: PTSD, Depression, and Negative Appraisals, Poster 28, Friday—MBH Great Hall at 2:45 p.m.

He, Tianfang '16: High-Resolution Chromatin Immunoprecipitation (ChIP) Sequencing Reveals Novel Binding Targets and Prognostic Role for SOX11 in Mantle Cell Lymphoma, Poster 17, Friday—MBH Great Hall at 10:30 a.m.

Hemphill, Sarah '16: STEM Innovation Project 2014: Building an Autonomous Aquatic Research Vessel for Monitoring of Cyanobacterial Spatial Distribution, Poster 30, Friday—MBH Great Hall at 2:45 p.m.

Henry, Ben '16: Effect of Salt Marsh Restoration on Early Stages of Leaf Litter Decomposition, Poster 18, Friday—MBH Great Hall at 10:30 a.m.

Hicks, Rebecca '15: Does Cooking Still Rhyme with Women?, Friday—MBH 311 at 9:15 a.m.

Hill, Katie '15: A Violent Line: Migrant Death in the U.S.-Mexico Borderlands, 1942 to Today, Friday—MBH 216 at 11:35 a.m.

Hill, Staci '15: Studies in Modern Political Philosophy, Friday—MBH 220 at 9:15 a.m.

Hinckley, Mason '17: Effective Velocity: A Middlebury College Baseball Analytics Club Investigation, Friday—MBH 311 at 2:30 p.m.

Hitz, Thomas '15: Ties that Bind: HIV and Gender Inequality in Sub-Saharan Africa, Friday—MBH 220 at 11:15 a.m.

Holmlund, Annika '15: The SageCat DJs—Music for Smartphones and Tablets, Thursday—MCA Museum of Art at 8:30 p.m.

Horan, Kaitlin '15: Quintet, Thursday—MCA Concert Hall at 8:30 p.m.; Predicting Plant-Pollinator Interactions in Montane Meadows, Friday—MBH 411 at 11:35 a.m.

Howe, Phoebe '15: Articulation: The Spaces In-Between, Poster 42, Friday—MBH Great Hall at 2:45 p.m.

Huff, India '15: Mothering While White: Moments of Race Experienced by White Mothers Raising Nonwhite Daughters, Friday—MBH 411 at 3:50 p.m.

Hummer, Holly '15: Born Shinto, Marry Christian, Die Buddhist? Deconstructing the Myth of Religiosity in Aging Japan, Friday—MBH 219 at 11:35 a.m.

Husin, Jacqueline '15: Paired Eating in the Rear Courtyard: The Normalization of Homoerotic Behavior in Three of Li Yu's Works, Friday—MBH 403 at 1:30 p.m.

Hussein, Mohamed '15: Linguistic Varieties in the Egyptian Short Story: A Brief Examination of Yūsuf Idrīs' use of *Āmmiyya* in *Arakhaṣ layālī*, Friday—MBH 403 at 2:10 p.m.

Igoe, Dylan '15: The Abandoned Arena: Race Relations in the Roosevelt White House (1901-09), Friday—MBH 411 at 3:30 p.m.

Isaacs, Zack '15.5: Integer Quantum Hall Effect in a GaAs Heterostructure, Friday—MBH 411 at 12:15 p.m.

Jarvis, Forest '15: Information and Exclusion: Barriers to Rural Development in the Peruvian Andes, Friday—MBH 311 at 12:15 p.m.

Johnston, Hannah '15.5: Songs and Arias, Thursday—MCA Concert Hall at 8:30 p.m.

Julien, Asa '15: Quintet, Thursday—MCA Concert Hall at 8:30 p.m.

Kamalanathan, Sivhanyaa '15: A Private Gathering, Poster 46, Friday—MBH Great Hall at 2:45 p.m.

Kaminow, Nico '15: Is Grass-Fed Beef Healthier for the Atmosphere?, Friday—MBH 303 at 3:50 p.m.

Kaminsky, Adam '16: Looped Animations from "Oil Painting: Color and Movement," Friday—MBH 219 at 4:10 p.m.

Kaslow, Zoe '15: Tethered Abroad: Technology and Communication with Home While Studying Abroad, Poster 5, Friday—MBH Great Hall at 10:30 a.m.

Keller, Elizabeth '15: A Comparative Study of Occupy Movements in Hong Kong and Taiwan, Friday—MBH 303 at 1:30 p.m.

Khan, Alexander '17: Studies in Modern Political Philosophy, Friday—MBH 220 at 9:15 a.m.

Khan, Bilal '18: Studies in Modern Political Philosophy, Friday—MBH 220 at 9:15 a.m.

Khanna, Akhila '17: Dance Diplomacy: A Cross-Cultural Movement Exchange, Friday—MBH 216 at 4:30 p.m.

Killian, Lucy '15.5: *Emergency 1A*: A Play Interpreted and Produced, Twice, Thursday—MCA 232 at 8:30 p.m.; Wandering Towards Molasses: Navigating the Boundaries between Photography, Objectification, and Pilgrimage in Kara Walker's "A Subtlety," Friday—MBH 220 at 1:50 p.m.

Kimm, Amanda '17: Dance Diplomacy: A Cross-Cultural Movement Exchange, Friday—MBH 216 at 4:30 p.m.

Kitajima, York '15: Quintet, Thursday—MCA Concert Hall at 8:30 p.m.; How I Composed My First String Quartet Piece, Friday—MBH 104 at 11:15 a.m.

Knapp, Emily '15: On the Periphery: Rachel Whiteread's "Nameless Library" on the Judenplatz and the Reinstitution of Jewish Memory in the Cultural Program of Vienna, Friday—MBH 338 at 9:55 a.m.; Are We Still Free to Be?, Friday—MBH 216 at 3:30 p.m.

Knor, Petr '15: Development in Practice: Exploring and Applying Concepts in Rwanda, Friday—MBH 311 at 11:55 a.m.

Knox, William '17: Oratory and the Liberal Arts, Friday—MBH 438 at 1:30 p.m.

Kremenovic, Vladimir '17: Dance Diplomacy: A Cross-Cultural Movement Exchange, Friday—MBH 216 at 4:30 p.m.

Kruskal, Joshua '15: Predicting Energy Crises: An Entropic Approach to Development, Friday—MBH 311 at 11:15 a.m.

Kuchinsky, Hope '17: Civil War Artifacts, Friday—MBH 338 at 1:30 p.m.

Kudman, Sam '17: The SageCat DJs—Music for Smartphones and Tablets, Thursday—MCA Museum of Art at 8:30 p.m.

Kuvalanka, Kaitlyn '17: Expressive Writing and Language Fluency: Implications for First-Year College Students, Friday—MBH 411 at 1:30 p.m.

L

Lawrence, Chiara '15.5: STEM Innovation Project 2014: Building an Autonomous Aquatic Research Vessel for Monitoring of Cyanobacterial Spatial Distribution, Poster 30, Friday—MBH Great Hall at 2:45 p.m.

Lecours, Doug '15: Senior Dance Thesis Lecture Demonstration: Open Rehearsal, Thursday—MCA Dance Theatre at 8:30 p.m.

Lee, Jia Jun '15: Spaces of De-/Reterritorialization: The Epistemological Terrain of Indigenous Land Resistance in Baram, Sarawak, Malaysia, Friday—MBH 104 at 9:55 a.m.

Levear, Duncan '15: A Web Interface for the Middlebury Stereo Evaluation v.3, Poster 25, Friday—MBH Great Hall at 10:30 a.m.

Liddell, Rachel '15: Imagining Identity: Women Writing Women in Early 20th-Century American Literature, Friday—MBH 403 at 1:50 p.m.

Lifhits, Jenna '15: The Pursuit of Knowledge: Liberal Arts and the Political Regime, Friday—MBH 438 at 9:35 a.m.

Linder, Katharine '15: Dykochondriac? Lesbian Women and Experiences of Food Allergy, Friday—MBH 403 at 11:15 a.m.

Liu, Karen '15: Development in Practice: Exploring and Applying Concepts in Rwanda, Friday—MBH 311 at 11:55 a.m.

Liu, Xiner '15: Unplug Your Marriage: The Effect of Residential Internet Use on Marital Stability, Friday—MBH 104 at 2:30 p.m.; A Modern Take on Cave Dwelling, Poster 33, Friday—MBH Great Hall at 2:45 p.m.

Loebs, John '16: Studies in Modern Political Philosophy, Friday—MBH 220 at 9:15 a.m.

M

MacDonald, Melissa '15: *Emergency 1A*: A Play Interpreted and Produced, Twice, Thursday—MCA 232 at 8:30 p.m.

Makin, Carter '15: The Exploration of an Anchor, Poster 27, Friday—MBH Great Hall at 2:45 p.m.

Maloney-McCrystle, Fiona '17: Effective Velocity: A Middlebury College Baseball Analytics Club Investigation, Friday—MBH 311 at 2:30 p.m.

Manley, Alexa '15: Looking at Vermont: How Abenaki History, Culture, and Politics Are Represented in Local Museums, Friday—MBH 411 at 1:50 p.m.; Effects of Bisphenol-A on Bovine Granulosa Cell Steroidogenesis and Viability, Poster 38, Friday—MBH Great Hall at 2:45 p.m.

Margolin, Eliza '15.5: Dwelling: Protection and Liberation, Poster 35, Friday—MBH Great Hall at 2:45 p.m.

Marks, Hannah '15: *Roommates*, Thursday—MCA 125 at 8:30 p.m.; *Beg*: A J-term Collaborative Video Project, Thursday—MCA 125 at 8:30 p.m.

Martin, Colin '15: String Quartet No. 1, “El Hambre Forzado,” Friday—MBH 219 at 11:15 a.m.

Massey, Charlotte '18.5: Invisible Burdens: Promoting Empathy through Art, Friday—MBH 219 at 9:15 a.m.

Matthew, Jabari '17: *Emergency 1A*: A Play Interpreted and Produced, Twice, Thursday—MCA 232 at 8:30 p.m.

McCabe, Jane '15: To Dwell, Poster 14, Friday—MBH Great Hall at 10:30 a.m.

McConney, Laura '15: “Perverved Little Monsters”: Comic Books, Children’s Crime, and Conformity in the Early Cold War, 1945–55, Friday—MBH 104 at 12:15 p.m.

McCreary, Kate '15: The Classroom as a Site of Resistance: Supporting Teachers in Challenging Traditional Models of Discipline, Friday—MBH 303 at 9:35 a.m.

McGarity, Carolina '16.5: Portrait of a Man: Govaert Flincq and the Rembrandt School, Friday—MBH 220 at 1:30 p.m.

McIntyre, Colin '15: Building a Laser-Scanning Microscope, Friday—MBH 104 at 1:50 p.m.

Mendoza-Etchart, Joelle '15: *Venus in Fur*, Thursday (10:00 p.m.) and Friday (7:30 and 10:00 p.m.)—Hepburn Zoo; *Venus in Fur*: Collaboration in the Artistic Process, Friday—MBH 216 at 9:55 a.m.

Meredith, Kristen '15: Tethered Abroad: Technology and Communication with Home While Studying Abroad, Poster 5, Friday—MBH Great Hall at 10:30 a.m.

Merenstein, Carter '16: STEM Innovation Project 2014: Building an Autonomous Aquatic Research Vessel for Monitoring of Cyanobacterial Spatial Distribution, Poster 30, Friday—MBH Great Hall at 2:45 p.m.

Michaelcheck, Charlotte '15: The Effects of Estradiol on Stages of Neurogenesis in Adult Male Rats, Poster 8, Friday—MBH Great Hall at 10:30 a.m.

Miles, Henry '15.5: What Does It Mean to Dwell?, Poster 22, Friday—MBH Great Hall at 10:30 a.m.

Moen, Sierra '17.5: Experience in Traditional Japanese Boatbuilding, Poster 26, Friday—MBH Great Hall at 10:30 a.m.

Monette, Patrick '17: Christianity at the Local Level: An Open-Minded Perspective on Community, Friday—MBH 438 at 9:55 a.m.

Moon, Bekah '15: #nohomo: A Map of Homophobic Tweets in the United States, Friday—MBH 216 at 2:30 p.m.

Mooney, Heather '15: Finding Balance on the Burlington North 40, Poster 11, Friday—MBH Great Hall at 10:30 a.m.

Mora, Israel '16: Studies in Modern Political Philosophy, Friday—MBH 220 at 9:15 a.m.

Moran, Delaney '18: Oratory and the Liberal Arts, Friday—MBH 438 at 1:30 p.m.

Morris, Margaret '15: Mingling Friendship and Mingling Blood: The Boy Actor, Marriage, and the Possibility of Heterosocial Friendship in *As You Like It*, Friday—MBH 311 at 9:55 a.m.

Moua, Lim la Monica '15: Would You Still Hire Me? The Role of Social Media as a Factor in Hiring Decisions, Poster 41, Friday—MBH Great Hall at 2:45 p.m.

Mpoki, Innocent '18: Pentecostalism in Africa, Friday—MBH 338 at 10:15 a.m.

Mullen, Anna '15: Women, Wolves, and the Poetics of Diane di Prima's *Loba*, Friday—MBH 219 at 9:55 a.m.

Mutter, Joseph '15: Architectural Studies Senior Thesis Presentation, Poster 4, Friday—MBH Great Hall at 10:30 a.m.

N

Nasr, Firas '15: "Women Like You, We Want to Help You." Examining the Relationship between Trafficked Persons and Law Enforcement in New York City, Friday—MBH 216 at 11:15 a.m.; From Kegan to Human Rights? Exploring How Psychological Theories of Development Can Impact Human Rights Theory and Practice, Friday—MBH 216 at 3:50 p.m.

Neira, Amanda '17: Dance Diplomacy: A Cross-Cultural Movement Exchange, Friday—MBH 216 at 4:30 p.m.

Nibasumba, Armel '16: Development in Practice: Exploring and Applying Concepts in Rwanda, Friday—MBH 311 at 11:55 a.m.

Novak, Jesse '15: Optogenetic Control of Neurotransmitter Transport in *Caenorhabditis Elegans*, Poster 21, Friday—MBH Great Hall at 10:30 a.m.

O

O'Dell, Jonathan '18: Homosexuality and Modern Christianity, Friday—MBH 216 at 1:30 p.m.

Orr, Nicholas '15: Impartial, Not Neutral: An Analysis of the *North China Herald*, April-June 1919, Friday—MBH 303 at 1:50 p.m.

P

Panella, Leslie '15.5: The Effects of Estradiol on Stages of Neurogenesis in Adult Male Rats, Poster 8, Friday—MBH Great Hall at 10:30 a.m.

Paolillo, Stephen '15: Shall or May Carry: An Empirical Study on How Concealed-Carry Laws Affect Crime, Friday—MBH 311 at 1:30 p.m.

Papageorgiou, Filippos '16: Studies in Modern Political Philosophy, Friday—MBH 220 at 9:15 a.m.

Pappalardo, Gioia '16: *Fantaisie Pastorale Hongroise*, Thursday—MCA Concert Hall at 8:30 p.m.; The Old Lyme Sculpture Museum: A Building of Earth and Water, Poster 23, Friday—MBH Great Hall at 10:30 a.m.

Parizeau, Molly '15: The Effect of Nearby Cell Phone Use on Student Comprehension, Poster 10, Friday—MBH Great Hall at 10:30 a.m.

Park, David '15: How God Remembers the 5th of November: A Critique of Paul's Cross Sermons on the Gunpowder Plot and Its Implications Today, Friday—MBH 411 at 2:30 p.m.

Parker, Alden '17: Apprenticeship in the Japanese Boatshop, Friday—MBH 303 at 10:15 a.m.; Experience in Traditional Japanese Boatbuilding, Poster 26, Friday—MBH Great Hall at 10:30 a.m.

Parsons, Bryce '15: *Beg*: A J-term Collaborative Video Project, Thursday—MCA 125 at 8:30 p.m.; The Effect of Nearby Cell Phone Use on Student Comprehension, Poster 10, Friday—MBH Great Hall at 10:30 a.m.

Pauchet, Alix '15: Dwelling as Intersection, Poster 7, Friday—MBH Great Hall at 10:30 a.m.

Pester, Andrew '17: Dance Diplomacy: A Cross-Cultural Movement Exchange, Friday—MBH 216 at 4:30 p.m.

Peterson, Bjorn '15.5: *Emergency 1A*: A Play Interpreted and Produced, Twice, Thursday—MCA 232 at 8:30 p.m.; Dwelling Is That Which Allows for Being, Poster 40, Friday—MBH Great Hall at 2:45 p.m.

Pfeiffer, Rita '15: Expressive Writing and Language Fluency: Implications for First-Year College Students, Friday—MBH 411 at 1:30 p.m.; Examining the Potential Implications of Rhythmically Constrained Speech Production in Typically Developing Six-Year-Old Children, Friday—MBH 219 at 3:30 p.m.

Pierce, Taylor '15: Displaying Civil War Era Artifacts, Friday—MBH 338 at 1:30 p.m.; Unpacking Normal, Poster 43, Friday—MBH Great Hall at 2:45 p.m.

Prouvost, Cordelia '17: Looped Animations from "Oil Painting: Color and Movement," Friday—MBH 219 at 4:10 p.m.

Q

Qayyum, Naina '15: Droning Polio: The Impact of Covert Drone Strikes on Polio Eradication Efforts in Pakistan, Friday—MBH 403 at 9:15 a.m.; Pakistan Versus Polio: An Anthropological Analysis of the Polio Eradication Program in Pakistan, Friday—MBH 403 at 9:35 a.m.

R

Raith, Morgan '16.5: The Ridge Perch: Design and Development, Friday—MBH 104 at 9:35 a.m.

Reading, Lucy '17: Real Food at Middlebury: Investing in the Local Landscape, Friday—MBH 403 at 12:15 p.m.

Redford, Dylan '15: Dylan Redford (Official) Project, Friday—MBH 220 at 2:30 p.m.

Richards, Mary '15: Investigating a Novel Indicator of Endocrine Disruption at the Population Level, Friday—MBH 220 at 11:35 a.m.

Rodrigues, Sonia '15: Pakistan Versus Polio: An Anthropological Analysis of the Polio Eradication Program in Pakistan, Friday—MBH 403 at 9:35 a.m.

Rosales-Underbrink, Piper '15: Analysis of Multiple Debris Flows in Lake Champlain, Vermont, from Juniper Island to Quaker Smith Point, Poster 6, Friday—MBH Great Hall at 10:30 a.m.

Rose, Ben '17.5: *Emergency 1A*: A Play Interpreted and Produced, Twice, Thursday—MCA 232 at 8:30 p.m.

Rose, Rebecca '16: Looped Animations from "Oil Painting: Color and Movement", Friday—MBH 219 at 4:10 p.m.

Rosenthal, August '17: *Venus in Fur*, Thursday (10 p.m.) and Friday (7:30 and 10:00 p.m.)—Hepburn Zoo; *Venus in Fur*: Collaboration in the Artistic Process, Friday—MBH 216 at 9:55 a.m.

Rossen, Julia '16: The Ridge Perch: Design and Development, Friday—MBH 104 at 9:35 a.m.

S

Sabharwal, Sabhyta '15: Elderly Love Stories, Friday—MBH 220 at 12:15 p.m.

Salem, Ali '16: *American Mercenary*, Thursday—MCA 125 at 8:30 p.m.

Sarwar, Akasha '16: Pakistan Versus Polio: An Anthropological Analysis of the Polio Eradication Program in Pakistan, Friday—MBH 403 at 9:35 a.m.

Saunders, Alexandra '15: Tethered Abroad: Technology and Communication with Home While Studying Abroad, Poster 5, Friday—MBH Great Hall at 10:30 a.m.

Schreger, Cade '15: *Space and Place: The Videographic Essay*, Thursday—MCA 125 at 8:30 p.m.; The Long Road Home: Evaluating Perceptions of Combat Veterans, Friday—MBH 411 at 9:55 a.m.

Scott, Dwayne '17: Writing Race and Class, Friday—MBH 438 at 11:15 a.m.

Seitz, Sally '17: *Venus in Fur*, Thursday (10 p.m.) and Friday (7:30 and 10:00 p.m.)—Hepburn Zoo; *Venus in Fur: Collaboration in the Artistic Process*, Friday—MBH 216 at 9:55 a.m.

Seltzer, Robert '15: Remembering Neighborhood Change through Google Street View, Poster 24, Friday—MBH Great Hall at 10:30 a.m.

Shallcross, Isabelle '16: Writing Race and Class, Friday—MBH 438 at 11:15 a.m.

Shapskinsky, Blake '15: Does Athletic Participation Impact Academic Performance?, Friday—MBH 303 at 9:55 a.m.

Sharif, Kayvon '16: Dysphagia after Nissen Fundoplication: Is Preoperative Esophageal Motility a Factor?, Poster 19, Friday—MBH Great Hall at 10:30 a.m.

Shaw, Kara '15: Building Resiliency through Microgrids: The Future of Energy at Middlebury College, Friday—MBH 216 at 9:15 a.m.

Shaw-Jones, Maxwell '17.5: Experience in Traditional Japanese Boatbuilding, Poster 26, Friday—MBH Great Hall at 10:30 a.m.

Silverglass, Sofia '15.5: Apprenticeship in the Japanese Boatshop, Friday—MBH 303 at 10:15 a.m.

Silverhart, Perri '16.5: Paleo-erosion Rates in the Eastern Andes, Poster 32, Friday—MBH Great Hall at 2:45 p.m.

Silverstein, Robert '15: "California, Here He Comes!": Nikita Khrushchev's 1959 Visit to the Golden State, Friday—MBH 338 at 11:55 a.m.

Singleton, Hayley '15: *Emergency 1A: A Play Interpreted and Produced, Twice*, Thursday—MCA 232 at 8:30 p.m.

Sloan, Moria '15: Urban Refugees: Living the Gap between Development and Emergency Assistance, Friday—MBH 303 at 11:35 a.m.

Smyth, Teddy '15: Reducing Greenhouse Gas Emissions through Regulation: The EPA, the States, and the Clean Power Plan, Friday—MBH 303 at 4:30 p.m.

Snow, Andrew '15: The Effect of Nearby Cell Phone Use on Student Comprehension, Poster 10, Friday—MBH Great Hall at 10:30 a.m.

Snyder, Sarae '15: Senior Dance Thesis Lecture Demonstration: Open Rehearsal, Thursday—MCA Dance Theatre at 8:30 p.m.

Song, Page '15: What Is It to Dwell? A Design Project on the Burlington Waterfront, Poster 20, Friday—MBH Great Hall at 10:30 a.m.; Do Bikeshare Systems Affect Congestion?, Poster 39, Friday—MBH Great Hall at 2:45 p.m.

Spencer, James '15: Shelter Is..., Poster 37, Friday—MBH Great Hall at 2:45 p.m.

Spillane, Summer '15: Assessing Campus Fitness: Comparing Blood Lactate Levels of College-Aged Athletes and Non-athletes, Poster 29, Friday—MBH Great Hall at 2:45 p.m.

Stanley, Milo '17.5: Experience in Traditional Japanese Boatbuilding, Poster 26, Friday—MBH Great Hall at 10:30 a.m.

Starkoff, William '15: Hooligan Politics of Yin and Yang: Wang Xiaobo and Post-1989 Chinese Public Intellectuals, Friday—MBH 403 at 3:50 p.m.

Stork, Josiah '15: Subversive and Anti-Societal Thought in Táng Short Stories, Friday—MBH 303 at 2:30 p.m.

Strauss, Zachary '15: The Past and Present of Convivencia: How Spain Appropriated and Transformed Its Medieval History, Friday—MBH 338 at 9:35 a.m.; Koshering the South: The Jews of Dixie, Friday—MBH 219 at 11:55 a.m.

Sullivan, Katie '15: What Is the Impact of International Coffee Prices on Conflict in Uganda?, Friday—MBH 411 at 10:15 a.m.; Displaying Civil War Era Artifacts, Friday—MBH 338 at 1:30 p.m.

Super, Chloe '15: Effect of Testosterone and Age on Spatial Memory in Male Rats, Poster 3, Friday—MBH Great Hall at 10:30 a.m.

Swartz, Greg '17.5: *Emergency 1A: A Play Interpreted and Produced, Twice*, Thursday—MCA 232 at 8:30 p.m.

T

Taylor, Ellen '15: Palynological Analysis of a Lake Champlain Sea Peat Layer, St. Albans, Vermont, Friday—MBH 411 at 11:15 a.m.

Tenenbaum, Kevin '15: Effective Velocity: A Middlebury College Baseball Analytics Club Investigation, Friday—MBH 311 at 2:30 p.m.

Tian, Ye '16: Born for Peace? Article Nine of Japan's Postwar Constitution in Historical Context, Friday—MBH 338 at 9:15 a.m.

Tipper, Jack '15.5: The SageCat DJs—Music for Smartphones and Tablets, Thursday—MCA Museum of Art at 8:30 p.m.

Toh, Cameron '17: Effective Velocity: A Middlebury College Baseball Analytics Club Investigation, Friday—MBH 311 at 2:30 p.m.

Toy, Karina '17: Economic Growth and Urban-Rural Income Inequality in China Since the Gaige Kaifang (1978–2013), Friday—MBH 216 at 12:15 p.m.

Trichka, Josie '17: Quintet, Thursday—MCA Concert Hall at 8:30 p.m.

V

Valentin, Natalie '15: Real Food at Middlebury: Investing in the Local Landscape, Friday—MBH 403 at 12:15 p.m.

Valladares, Ivan '17: Dinning, Poster 47, Friday—MBH Great Hall at 2:45 p.m.

Vankina, Prasanna '18: Experience in Traditional Japanese Boatbuilding, Poster 26, Friday—MBH Great Hall at 10:30 a.m.

Vatnick, Daniel '15: The Effect of Nearby Cell Phone Use on Student Comprehension, Poster 10, Friday—MBH Great Hall at 10:30 a.m.

W

Wang, Roy '15: Corporate Philanthropy: A Global Civil Society?, Friday—MBH 303 at 2:10 p.m.

Warne, Lindsay '15: Building Resiliency through Microgrids: The Future of Energy at Middlebury College, Friday—MBH 216 at 9:15 a.m.; Peak Shaving Strategies and Optimization of Economic, Social, and Environmental Goals at Middlebury College, Friday—MBH 303 at 3:30 p.m.

Warren, Nick '15: *Emergency 1A*: A Play Interpreted and Produced, Twice, Thursday—MCA 232 at 8:30 p.m.

Weightman, William '17: Economic Growth and Urban-Rural Income Inequality in China Since the Gaige Kaifang (1978–2013), Friday—MBH 216 at 12:15 p.m.

Weil, Nathan '15: Real Food at Middlebury: Investing in the Local Landscape, Friday—MBH 403 at 12:15 p.m.

Weiss, Zach '15: The Effect of Banning Affirmative Action on Minority Students' Risk Behavior, Friday—MBH 438 at 10:15 a.m.

Wilmoth, Maxmarie '15: Beyond Contraception and Corporations: Hobby Lobby's Implications for the Relationship between Religion and Government in America, Friday—MBH 403 at 2:30 p.m.

Wilson, Zach '15: *Beg*: A J-term Collaborative Video Project, Thursday—MCA 125 at 8:30 p.m.

Winters, Roger '17: Role of Oxidative Stress in FUS-ALS Pathogenesis, Friday—MBH 403 at 9:55 a.m.

Wolfley-Payan, Andrew '15.5: Writing Race and Class, Friday—MBH 438 at 11:15 a.m.

Wood, Jake '15: Art, Math, and Computers: A Guide to the Mandelbrot Set, Friday—MBH 219 at 3:50 p.m.

Wood, Kevin '15: Environmentalism in Vonnegut, Friday—MBH 411 at 11:55 a.m.

Woolworth, Davis '15: William Sage Woolworth Jr. and the American Board in Atatürk's Turkey, Friday—MBH 338 at 11:35 a.m.

Wright-Lapin, Rosalie '15: Class, Culture, and Identity at Middlebury Union High School, Friday—MBH 303 at 9:15 a.m.

Y

Yedid, David '15: Queerness and Rurality, Identity and Migration, Friday—MBH 216 at 2:10 p.m.

Yellow-Duke, Afi '15: Senior Dance Thesis Lecture Demonstration: Open Rehearsal, Thursday—MCA Dance Theatre at 8:30 p.m.; Eat the "Right" Thing: Perceptions of Food Justice and Gentrification in Central Brooklyn, Friday—MBH 403 at 11:35 a.m.

Z

Zhai, Wentao '17: Taipei's Chiang Kai-shek Memorial and the Question of Modernity, Friday—MBH 220 at 4:10 p.m.

Zhang, Danny '15: The Curation of Power: Architecture, Ideology, and Political Communication on the National Mall and in Tiananmen Square, Friday—MBH 104 at 9:15 a.m.

Zhang, Yashu '15.5: Seeing Uruguayan Modernism through the Myth of Equality, Friday—MBH 411 at 4:30 p.m.

Zhu, Joy '17: A Reading of Paper Cutouts: Readings and Misreadings, Friday—MBH 219 at 1:50 p.m.

RESEARCH FUNDING AND SUPPORT AT MIDDLEBURY

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