Middlebury

Spring Student Symposium

April 20, 2018
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 Jenny Orten and JoAnn Brewer and her student staff. With Shel Sax’s oversight, staff members from the Middlebury College Library, Information Technology Services, and the Office of Digital Learning and Inquiry (DLINQ) dedicated many essential hours to the symposium. We would especially like to thank Mike Roy, Carol Peddie, and Amy Collier for making their staff 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 Nee and Jeff Lahase of the central systems and network group; Joe Durante and the HelpDesk staff; Peter Mitrevski, Mack Pauly, David Wright, and the media services staff and students; and Bill Kouloupos and Joe Antonioli, Heather Stafford, Daniel Houghton, and digital media tutors of the DLINQ team. Cathy Ekstrom, the McCardell Bicentennial Hall building coordinator, along with general event support, organized the poster sessions.

Michael Sheridan, Karen Guttenstag, Wendy Shook, Amanda Crocker, and Brandon Baird served on the Spring Student Symposium Sessions Committee, creating our highly interdisciplinary event. Thanks to Elsa Alvarado ’18, Tim Hansen ’18, Joshua Kim ’18, Carolina Montoya Pabon ’18, and Asia Myles-Funches ’18 who provided fresh perspectives and assistance. Pam McGuire, Valerie Costello, Stephen Diehl, Pam Fogg, Aaron Smith, Chris Spencer, Jesse Raymond, and Sara Marshall helped get the word out and document the event. Mack Roark, Ben Powers, Dana Yeaton, and Oratory Now student coaches assisted students in preparing their talks and posters by providing learning materials, workshops, and coaching. Jan Martin, Megyn Pitter, and the catering team provided an outstanding menu. Amy Foote, Lisa Ayers, Jen Erwin, and the facilities team supported the symposium’s logistical needs. Megan Curran facilitated arrangements within Johnson Memorial Building. We are grateful to all the people who are serving 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 ‘00 Memorial Fund, established in 2008 to honor Norbert’s memory and support the annual symposium, an event that exemplifies his appreciation of scholarly inquiry.

For complete schedules and abstracts for the 12th annual symposium, visit go.middlebury.edu/sym
WELCOME

Join us in celebrating the 12th annual Spring Student Symposium!

The symposium is a daylong event in McCardell 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 2018 Spring Student Symposium Planning Committee

Hang Du, Associate Professor of Chinese, Co-chair
Lisa Gates, Associate Dean for Fellowships and Research, Co-chair
Brandon Baird, Assistant Professor of Spanish
Amanda Crocker, Assistant Professor of Neuroscience
Karen Gutentag, Associate Dean for Judicial Affairs and Student Life
Larry Hamberlin, Professor of Music
Colleen Norden, Administrative Coordinator for Fellowships and Undergraduate Research
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
Wendy Shook, Science Data Librarian

Please be aware that 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.

TABLE OF CONTENTS

Welcome and Introductory Statements ........................................... 2
Spring Student Symposium Schedule: Overview .......................... 5
Spring Student Symposium Schedule ....................................... 6
Presenter Index ........................................................................ 20
Research Funding and Support at Middlebury ............................ 29
Welcome to the 2018 Spring Student Symposium!

Welcome to Middlebury College’s 12th annual Spring Student Symposium. Each April, students from first-years to seniors, across all academic disciplines, participate in this symposium. In presentations and poster sessions, performances, panels, and readings, they share their intellectual passions and discover 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.

Each of today’s presentations began with a curious moment that was allowed to grow. 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. 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 them here today—to take pride in embracing their curiosity and all that their independent explorations and their collaborations have made possible. We are honored to share today with them.

Sincerely,

President Laurie L. Patton

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PROGRAM SCHEDULE OVERVIEW

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

10:00 a.m.–4:00 p.m.
Art Exhibits
Johnson Pit, 203, 205, 208, Mezzanine

10:30–11:15 a.m.
Poster Presentations: Group 1 and Refreshments
McCardell Bicentennial Great Hall, 331, and 338

11:15 a.m.–12:30 p.m.
Session II: Oral Presentations
McCardell Bicentennial Hall 104, 216, 219, 220, 303, 311, 403, 411, 438, 538

12:30–1:30 p.m.
Lunch for Presenters, Sponsors, and Moderators
Atwater Dining Hall
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, 403, 411, 438, 538

2:45–3:30 p.m.
Poster Presentations: Group 2 and Refreshments
McCardell Bicentennial Great Hall, 331, and 338

3:30–4:45 p.m.
Session IV: Oral Presentations
McCardell Bicentennial Hall 216, 219, 220, 303, 311, 403, 411, 438, 538

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

9:00–10:30 p.m.
Evening Event
McCardell Bicentennial Hall, Mittelman Observatory
**Welcome**

Session I: Oral Presentations

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

**Schooling Behavior**  
Moderated by Triinh Tran, Assistant Professor of Sociology and Anthropology  
McCardell Bicentennial Hall 210

9:15 a.m.  
Intergenerational Learning: A Look into the Middlebury Community—Jin-Mi Sehn ’18; Sponsor: Claudia Cooper, Education Studies

9:35 a.m.  
Locke and Rousseau on Education—Joanna Balla ’18; Sponsor: John Harpham, Political Science

9:55 a.m.  
Placing “the Child” in School—Sarah Koch ’18.5; Sponsor: Triinh Tran, Sociology and Anthropology

10:15 a.m.  
Acknowledging Biases: Implementing Feminist Science in Middlebury Classrooms—Mikayla Hyman ’20, Mika Morton ’19; Sponsor: Jessica Teets, Political Science; Pam Berenbaum, Global Health Program

**Corporate Welfare and Faring Well**  
Moderated by Jamie McCallum, Assistant Professor of Sociology  
McCardell Bicentennial Hall 220

9:15 a.m.  
Investigating the Relationship between Political Contributions by Pharmaceutical Companies and Speed of FDA Drug Approval—Harson Azrah ’18; Sponsor: Caitlyn Myers, Economics

9:35 a.m.  
More Month at the End of the Money: The Effects of Welfare Benefits on U.S. Prostitution Markets—Naomi Eisenberg ’18; Sponsor: Caitlyn Myers, Economics

9:55 a.m.  
Measuring the Work of Médecins Sans Frontières in the European Migrant Crisis—Meredith Tulloch ’18; Sponsor: Sarah Stroup, Political Science

10:15 a.m.  
Reevaluating the NCAA Lacrosse Championship Location—Parker Lawlor ’18; Sponsor: Peter Nelson, Geography

**Motie Force**  
Moderated by Michael Sheridan, Associate Professor of Anthropology  
McCardell Bicentennial Hall 303

9:15 a.m.  
The Effects of Temperature on Grouping and Feeding in Woodlice (Oniscus asellus)—Bryce Williamson ’18; Sponsor: Tom Root, Biology

9:35 a.m.  
Plato and the Purpose of Alterlife Myths—Jason Meuse ’18; Sponsor: Pavlos Sfyroeras, Classics and Classical Studies

9:55 a.m.  
Is the Toxicity of Welfare Payments Leading to Increased Drug Treatment Admissions—Connor McCormick ’18; Sponsor: Caitlin Myers, Economics

10:15 a.m.  
Defying Hamburabi: Is Reciprocity Driven Exclusively by Internal Motives?—Javier del Cid ’18; Sponsor: Andrea Robbett, Economics

**The Good, the Bad, and the Ugly**  
Moderated by Erik Bleich, Professor of Political Science; Karin Hanta, Director of Chellis House  
McCardell Bicentennial Hall 311

9:15 a.m.  
The Good, the Bad, and the Ugly: A Corpus Linguistics Analysis of U.S. Newspaper Coverage of Latinx, 1996–2016—Georgia Grace Edwards ’18, Mia Fichman ’19, Rizwan Jafri ’18; Sponsor: Erik Bleich, Political Science

10:00 a.m.  
Domestication vs. Foreignization: A Clear-Cut Line?—Mahi Knutson ’20, David Rubinstein ’18, Haruna Takeda ’18; Sponsor: Karin Hanta, Gender, Sexuality, and Feminist Studies

**Ses, Religion, and Power**  
Moderated by Louisa Burnham, Associate Professor of History  
McCardell Bicentennial Hall 403

9:15 a.m.  
To Taste the Forbidden Fruit: An Exploration of Clerical Celibacy and Those Who Failed to Maintain It—Charlie Shotton ’18; Sponsor: Louisa Burnham, History

9:35 a.m.  
Slavery in the Name of Islam: Human Trafficking and Geopolitical Maneuverings within ISIS—Emma Dunlap ’18; Sponsor: Febe Armanios, History

9:55 a.m.  
Coping with Mortality: The Fear of Death as Discussed by Shakespeare’s King Lear and Romances, and Psychology’s Terror Management Theory—Caroline Jaschke ’18; Sponsor: John Bertolini, English and American Literatures

**Framing the Environment**  
Moderated by Jon Isham, Professor of Economics  
McCardell Bicentennial Hall 418

9:15 a.m.  
Representations of Disabled Individuals in Outdoor Experiences: Valuing All Experiences Equally—Austin Stevens ’18.5; Sponsor: Susan Burch, American Studies

9:35 a.m.  
Collective Struggle or a War? The Effectiveness of Adversarial Framing in the Climate Debate—By Storey-Fisher ’18; Sponsor: Jon Isham, Environmental Studies

9:55 a.m.  
Human Rights on the Altars of Extractive Economies: A Case Study of Tiltill as a Zona de Sacrificio in Chile—Laura Dillon ’19; Sponsor: Kemi Fuentes-George, Political Science

10:15 a.m.  
An Enemy of the People—Sebastian LaPointe ’18; Sponsor: Alex Draper, Theatre

Adapting to a Changing Environment  
Moderated by Elizabeth Morrison, Associate Professor of Religion  
McCardell Bicentennial Hall 418

9:15 a.m.  
“An Indescribable Chemistry”: Fanordin and Pilgrimage in Contemporary Japan—Shane Healy ’18; Sponsor: Stephen Snyder, Japanese Studies

9:35 a.m.  
Cash for Corporations? The Effects of State Incentives on Economic Development—Jigar Bhakta ’18; Sponsor: Erick Gong, Economics

9:55 a.m.  
Acid Mine Drainage: A Tale of Extremophilic Organisms in Vershire, Vermont—Katherine Morillo ’18; Sponsor: Lesley-Ann Giddings, Chemistry and Biochemistry

10:15 a.m.  
Christian Missions among the Lisu People of Nujiang, China—Jonathan O’Dell ’18.5; Sponsor: Elizabeth Morrison, Religion
Projections of an Online Exhibition in Room 205: ART 388 Pictures in Space
Sponsor: Michelle Leitheris, Studio Art

Hallway Outside Room 280: ART 380 Photography NOW
Sponsor: Michelle Leitheris, Studio Art

Johnson Mezzanine: ART 395 Intaglio Prints
Sponsor: Hedya Klein, Studio Art

10:30 a.m.–11:55 a.m.
Poster Presentations: Group 1 and Refreshments
McCardell Bicentennial Great Hall, 331, and 338

1. What Is the Good Life and How Do We Live It Together? MBH 331 and 338

3. Augmented Reality Sandbox—Sam Kaelin ‘19.5, Kira Waldman ‘20; Sponsor: Kristina Walowski, Geology
4. Soil Carbon Sequestration in a Vermont Regenerative Grazing System—Kate Porterfield ‘18.5; Sponsor: Helen Young, Biology
5. Synthesizing a Novel Branched Surfactant for Improved Contaminant Removal from Water—Katharine Fortin ‘18; Sponsors: Molly Costanza-Robinson, Chemistry and Biochemistry; Rick Bunt, Chemistry and Biochemistry
6. Selected Translations from Li Juan’s Poem Pinyin ‘18; Sponsor: Jingling Chen, Chinese
7. Patterns of Mortal Cortical Activity Described by the First Latent Dimension Predict Presence of an Object—Delaney Moran ‘18; Sponsor: Amanda Crocker, Neuroscience
8. The Collective Poetry of Topography—Leslie Robbins ‘18; Sponsor: Kathryn Kramer, English and American Literatures
9. An Analysis of Healthy Food Pricing Incentives and BMI Outcomes for Low-SES Americans—Alexander Carlson ‘18; Sponsor: Andrea Rockets, Economics
10. Intersections of Wildlife Risk and Social Vulnerability in Montana—Patrick Schmidt ‘18; Sponsor: Jessica L’Roe, Geography
11. Geochemical Analysis of Near and Far-Field Tsunami Deposits: Little Pigeon Bay, New Zealand—Bryce Belanger ‘19; Sponsor: Kristina Walowski, Geology
14. Measuring the Impacts of a Man-Made Barrier on the Spatial Distribution of Diatom Genera in a First-Order Stream—Emilie Seavey ‘18; Sponsor: Sallie Shelden, Biology
15. Qualitative and Simple Quantitative MRI Measures of Infant Brain Size: Is Prematurity a Risk Factor in the Setting of Surgery and Critical Care with Prolonged Sedation?—Stacy Gons ‘19; Sponsor: Robert Cluss, Chemistry and Biochemistry
16. Comparing Vulnerability Indices in Malawi—Alyse Cristina Figueredo Goncalves ‘18.5; Sponsor: Joseph Heller, Geography
17. Optimization of a Two-Photon Laser Scanning Microscope—Emma Moskowitz ‘18; Sponsor: Michael Durst, Physics
19. BMI and Its Potential Role in Lens Regeneration—George Lampe ‘18; Sponsor: Catherine Combelles, Biology
20. Simulation-Based Genotyping of Structural Variants in Whole Genome Sequencing Data—Crystal Paudyal ‘19; Sponsor: Michael Linderman, Computer Science
22. Theology of the Lunar Moscovience Basin—Samuel Cartwright ‘18; Sponsor: Jonathan Kemp, Sciences Tech Support Services
11:55 a.m. Refugee Camps as Neoliberal Space: The Case of Za'atari Refugee Camp in Jordan—Vignesh Ramachandran ’18; Sponsor: Sebnem Gumuscu, Political Science
12:15 p.m. Pre-eruptive Storage and Evolution of High-Mg Basalts in the Southern Cascade Arc—Sophie Leiter ’18; Sponsor: Kristina Walowski, Geology

Busted Stuff: Disrupted Relationships
Moderated by Martin Seehuus, Visiting Assistant Professor of Psychology
McCardell Bicentennial Hall 311
11:15 a.m. EPA Science in a Time of Fake News: Understanding the Politicization of Environmental Science and Protection—Simon Willig ’18; Sponsor: Merrill Baker-Medard, Environmental Studies
11:35 a.m. An Analysis of the Effects of Sexual Orientation and Gender on Opinions of Infidelity—Fiona Mohamed ’18; Sponsor: Martin Seehuus, Psychology
11:55 a.m. Impacts of Civil War in Migration and Remittances: Evidence from Nepal’s Districts—Ojaswi Pandey ’18; Sponsor: Andrea Robbett, Economics
12:15 p.m. Investigating the Effects of Prenatal Xenoestrogen Exposure on Digit and Metatarsal Epiphyseal Maturation—Audrey Bangs ’18, Stephanie Blair ’18; Sponsor: Molly Costanza-Robinson, Chemistry and Biochemistry

Matters of Choice
Moderated by Tanya Byker, Assistant Professor of Economics
McCardell Bicentennial Hall 403
11:15 a.m. Identità in Italia: migranti e nuovi italiani (Identity in Italy: Immigration and New Italians)—Rajan Ramdev ’18.5; Sponsor: Stefano Mula, Italian
11:35 a.m. Restricted Access in the Land of Plenty: Identifying and Addressing Policy Causes for Agricultural Underperformance in Sub-Saharan Africa—Colin Boyle ’18; Sponsor: Nadia Horning, Political Science
11:55 a.m. Exploring the Motives of Humanitarian Aid: A Comparative Study—Elaine Helitzer ’18; Sponsors: Tanya Byker, Economics; Sarah Stroup, Political Science

Let’s Get Small
Moderated by Chris Herdman, Assistant Professor of Physics
McCardell Bicentennial Hall 438
11:15 a.m. Utilizing Trace Element Diffusion Models in Clinopyroxene and Olivine to Determine Ascent Rates of Cinder Cone Magmas in the Southern Cascades—Andrew Hollyday ’18.5; Sponsor: Kristina Walowski, Geology
11:35 a.m. Analysis of Endocytic Protein Dynamics by Stochastic Modeling of Fluorescent Signal Lifetimes—Sabina Haque ’18; Sponsor: Alexander Lyford, Mathematics
11:55 a.m. Modeling Trajectories of Cold Atoms in Flight—Sasha Clerck ’19; Sponsor: Anne Goodsell, Physics
12:15 p.m. Numerical Studies of Entanglement of Atoms Trapped in an Optical Lattice—Jacob Volz ’18; Sponsor: Chris Herdman, Physics

An Ounce of Prevention
Moderated by Mark Spritzer, Associate Professor of Biology
McCardell Bicentennial Hall 538
11:15 a.m. Political Influences on Preventive Healthcare Policies in the U.S. and Chile—Nora Lenhard ’18; Sponsor: Bert Johnson, Political Science
11:35 a.m. Characterizing the SloR Binding Sequence in an IGR that Precedes the S. mutans sloR Gene by DNA Footprinting—Maddison Morgan ’18; Sponsor: Grace Spatafora, Biology
11:55 a.m. Effects of the Epoxydym Mimic BTX-1039 on Spatial Memory in a 12-Month-Old Transgenic Mouse Model of Alzheimer’s Disease—Daryl Morrison ’18.5; Sponsor: Mark Spritzer, Biology
12:15 p.m. Does Paid Maternity Leave Improve Maternal Health?—Becca Raffel ’18; Sponsor: Caitlin Myers, Economics

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

Videographic Film and Media Studies
Moderated by Sinad Keirans, Assistant in Instruction for Film and Media Culture
McCardell Bicentennial Hall 104
1:30 p.m. A Showcase of Video Essays—Will DiGravis '19, Alyne Cristina Figueroedo Goncalves '18, Emma Hampsten '18, Jack Ralph '18, Ian Scua '19.5; Sponsor: Jason Metzll, Film and Media Culture

Borderwork: Action on the Margins
Moderated by Joyce Mao, Associate Professor of History
McCardell Bicentennial Hall 216
1:30 p.m. Barriers to Healthcare Access for Migrant Agricultural Workers in Vermont—Molly Kembell '18; Sponsors: Luis Casteneda, Spanish and Portuguese; Pam Berenbaum, Global Health Program
1:50 p.m. Defining Home: Contextualizing the Spectrum of Homelessness Using Literary and Geographic Analysis—Tabitha Mueller '18; Sponsors: Jessica L'Rose, Geography; Daniel Bratyon, English and American Literatures
2:30 p.m. “No way on earth that we can gain any kind of political power unless we have some kind of economic power”: Fannie Lou Hamer and the Economic Power—Molly Mula, Italian

Challenging “Otherness”
Moderated by Jason Vrooman, Museum of Art Curator of Education and Academic Programs
McCardell Bicentennial Hall 220
1:30 p.m. Rules Were(n’t) Made to Be Broken—Jasmin Campo, History; Sponsor: Jessica Teets, Political Science
1:50 p.m. On the Edge of Hope: Internally Displaced Peoples and Urban Humanitarianism—Esteban Arenas-Pino '18; Sponsor: Sarah Stroup, Political Science
2:10 p.m. Indigenous Knowledge and Mainstream Education Systems—Christina Brook '18; Sponsor: Marybeth Nevins, Sociology and Anthropology
2:30 p.m. Iconic Influences: Ethiopian Christian Art’s Adaptation of Venetian Style in the 15th and 16th Centuries—Michael Lally '18; Sponsor: Jason Vrooman, Museum of Art

Social Entrepreneurship Fellows’ Stories
Moderated by Nadia Horning, Associate Professor of Political Science
McCardell Bicentennial Hall 303
1:30 p.m. Social Entrepreneurship Fellows’ Stories—Miguel Castillo '18, Naomi Eisenberg '18, Razaan Jaban '18, Abdjabar Mohamed '18.5, Michael Shrader '18; Sponsor: Nadia Horning, Political Science

Middlebury Zero Energy School Team
Moderated by Jack Byrnes, Director of Sustainability Integration
McCardell Bicentennial Hall 311
1:30 p.m. Middlebury Zero Energy School Team: Designing a Zero Energy Middlebury Elementary School—Maria Abragan '18, Jack Allnut '20.5, Ben Benlinski '18.5, Vanessa Dikuyama '18, Elliott Friedman '19, Karen Kobayashi '18, Max Lustuz '20.5, Emma McDonagh '19, Georgiana Miller '18, Olivia Ryder '19, Priyanjali Sinha '18, Ky Storey-Fisher '18, Thomas Wentworth '18; Sponsor: Will Amidon, Geology

Reflections of Japan
Moderated by Linda White, Associate Professor of Japanese Studies
McCardell Bicentennial Hall 403
1:30 p.m. Akumojii Dracula/Count Dracula: Localization and Franchise Identity—Salm Terrazas '18; Sponsors: Linda White, Japanese Studies
1:50 p.m. Collective Memory Construction of the Ianfu System in China—Mani Tanoka '18; Sponsor: Ellen Oxefld, Sociology and Anthropology
2:10 p.m. Amakudari: Parachute?—The Solution to Japan’s Economic Stagnation?—Maga Miller '18; Sponsor: Leila Davis, Economics
2:30 p.m. The Threat of Drug Use in Japanese and American Gangster Films—Dylan Quinnelle '18; Sponsor: Carole Cavanaugh, Japanese Studies

Identities in Bodies and in Places
Moderated by Rebecca Mitchell, Assistant Professor of History
McCardell Bicentennial Hall 411
1:30 p.m. A Tale of Two Ethnic Groups: The Legacies of Amakudari and Amakudari: Localization and Franchise Identity—Esteban Arenas-Pino '18; Sponsor: Sarah Stroup, Political Science
1:50 p.m. Identities in Bodies and in Places—AnGayle Vasiliou, Chemistry and Biochemistry
2:10 p.m. Social Entrepreneurship Fellows’ Stories—Miguel Castillo '18, Naomi Eisenberg '18, Razaan Jaban '18, Abdjabar Mohamed '18.5, Michael Shrader '18; Sponsor: Nadia Horning, Political Science

Constructing Modern Models
Moderated by Amanda Gregg, Assistant Professor of Economics
McCardell Bicentennial Hall 438
1:30 p.m. Modernization in Progress: Part-Year Operation, Capital Accumulation, and Labor Force Composition in Late Imperial Russia—Tamar Matiashvili '18; Sponsor: Amanda Gregg, Economics
1:50 p.m. Estimating External Validity Bias in Randomized Controlled Trials—Trisha Singh '18; Sponsor: Andrea Robbott, Economics
2:30 p.m. Modernity and Its Effects on Philosophical Theology: Hedgegger, Tillich, and Marion—Hayk Harutyunyan '18; Sponsor: James Davis, Religion

Earth, Wind, and Amazon Fire
Moderated by Pat Manley, Professor of Geology
McCardell Bicentennial Hall 538
1:30 p.m. Evaluating Geochemical Signatures and Tectonic Implications of Calcite Veins within the Champlain Valley—Liesel Robbins '18; Sponsor: Will Amidon, Geology
1:50 p.m. Transmission Infrastructure and Wind Integration: What Texas’s CREZ Project Means for the Incorporation of Renewable Energy—Alissa Huntington '18; Sponsor: Jon Isham, Economics
2:10 p.m. Estimating Extention Validity Bias in Randomized Controlled Trials—Trisha Singh '18; Sponsor: Andrea Robbott, Economics
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Rules Were(n’t) Made to Be Broken
Moderated by Larry Hamberlin, Professor of Music
McCardell Bicentennial Hall 219
1:30 p.m. Referenda: The Key Factor for Successful Self-Determination Movements—Margot Graham '18; Sponsor: Jessica Teets, Political Science
1:50 p.m. Modal Shift in Sarum Chant Melodies—Annie Beliveau '18; Sponsor: Larry Hamberlin, Music
2:10 p.m. Storytelling in Academic Writing—Christine McDow '21; Sponsor: Mary Ellen Bertolini, Writing and Rhetoric Program

Embodiment, and Selfhood in Angela Carter’s Beloved—Tess Worster ‘18.5; Sponsor: Brett Miller, English and American Literatures
2:10 p.m. Syntheses of Benzacyclodutadiene Chromium Tricarbonyl—Peter Dykeman-Berhmingham '18.5; Sponsor: Jeff Byers, Chemistry and Biochemistry

In Pursuit of Molecular Wires: Attempted
4:30 p.m. Lead Concentrations in Drinking Water in Addison County Public Schools—Jennifer Ortega ’18; Sponsor: Molly Costanza-Robinson, Chemistry and Biochemistry

Headspaces
Moderated by Pieter Broucke, Professor of History of Art and Architecture
McCardell Bicentennial Hall 403

3:30 p.m. The Whiteness of Natural Spaces: Understanding Race and Class-Based Exclusion in the Outdoor Industry—Liddy Renner ’18; Sponsor: Michael Sheridan, Sociology and Anthropology
3:50 p.m. Human-Environmental Relations in Japan—Emmet Norris ’18; Sponsor: Linda White, Japanese Studies
4:10 p.m. Past Informs Future: Community, Sustainability and Vernacular Building Cultures in Colombia—Vanessa Dikuyama ’18; Sponsor: Pieter Broucke, History of Art and Architecture
4:30 p.m. The Wall in the Head: Do Institutions Affect Psychological Dispositions? An Examination of East and West Germany—Tamar Matiashvili ’18; Sponsor: Erick Gong, Economics

Portraits of the “Other”
Moderated by Marcos Rohena-Madrazo, Assistant Professor of Spanish
McCardell Bicentennial Hall 411

3:30 p.m. Impacts of the Affordable Care Act’s Medicaid Expansion Provision on Job Lock—Lauren Finkelstein ’18; Sponsor: Caitlin Myers, Economics
3:50 p.m. When in America, Do as the Romans Do—Dasha Pimenov ’21; Sponsor: Christopher Star, Classics and Classical Studies
4:10 p.m. Palestine and Israeli in the Eyes of American and British Media—Razan Jabari ’18; Sponsor: Erik Bleich, Political Science

4:30 p.m. The Response of White Americans to the Hispanic Immigrant Wave: The Role of Local Context—Steven Li ’18; Sponsor: Bert Johnson, Political Science

Deep Dives
Moderated by James Berg, Assistant Professor of English and American Literatures
McCardell Bicentennial Hall 438

3:30 p.m. Detrital Zircon Geochronology of Strata from Multiple Accreted Terranes in South-Central Maine—Samuel Cartwright ’18; Sponsor: Dave West, Geology
3:50 p.m. Credible Serendipity in an Age of Data Mining: Using the Wisdom of Experts with Pre-analysis Plans and Split-Sample on a Randomized Trial in Kenya—Ana Sanchez Chico ’18; Sponsor: Erick Gong, Economics
4:10 p.m. Preliminary Results: Deep Drill Core (U-Th)/He Thermochronology, Southeastern Connecticut—Joel Wilner ’18; Sponsor: Will Amidon, Geology
4:30 p.m. Unsayable and Unsaid: Traversing the Gaps in the Writing of Julian of Norwich—Mercedes McMahon ’18.5; Sponsor: James Berg, English and American Literatures

Confessional Writing
Moderated by Hector Vila, Assistant Professor of Writing
McCardell Bicentennial Hall 538

3:30 p.m. Confessional Writing: An Ode to and Act of Reclaiming the Confessional Narrative—Naomi Eisenberg ’18, Maddie Hampton ’18, Miyo McGinn ’20, Mike Pallozzi ’18.5, Carson Peacock ’18; Sponsor: Hector Vila, Writing and Rhetoric Program

4:30–5:30 p.m.
Closing Reception
McCardell Bicentennial Great Hall
Music and Refreshments

Evening Event
9:00-10:30 p.m.
Observatory Stargazing
McCardell Bicentennial Hall, Mittelman Observatory

Ben Belinski ’18.5, Tatum Braun ’20, Samuel Cartwright ’18, Sasha Clarick ’19, Sadie Coffin ’19, David Cohen ’20, Adin Insoft ’20, Maggie Joseph ’20, Thibault Latroy ’20, Jeffrey Ou ’19, Oscar Psychas ’21, Shio Sakon, Haruna Takeda ’18, Avery Travis ’18, Ryo Weed ’18.5; Sponsor: Jonathan Kemp, Sciences Tech Support Services

This event will only take place if the sky is mostly clear. Please call the observatory at 802-443-2266 after 7 p.m. for weather status.
<table>
<thead>
<tr>
<th>Presenter</th>
<th>Session/Poster Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belknap, Annie '18</td>
<td>Oral Session III—MBH 219 at 1:50 p.m.</td>
</tr>
<tr>
<td>Bennington, Nathan '18</td>
<td>Poster Session I—MBH Great Hall at 10:30 a.m., Poster 27; Poster Session II—MBH 331 and 338 at 2:45 p.m., Poster 28</td>
</tr>
<tr>
<td>Bhakta, Jigar '18</td>
<td>Oral Session I—MBH 438 at 9:35 a.m.</td>
</tr>
<tr>
<td>Bhalla, Ayusha '20</td>
<td>Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1</td>
</tr>
<tr>
<td>Blais, Stephanie '18</td>
<td>Oral Session II—MBH 311 at 12:15 p.m.</td>
</tr>
<tr>
<td>Bliska, Emma '18</td>
<td>Oral Session I—MBH 104 at 10:15 a.m.</td>
</tr>
<tr>
<td>Booth, Graham '18</td>
<td>Poster Session II—MBH Great Hall at 2:45 p.m., Poster 48</td>
</tr>
<tr>
<td>Boree, Claire '18</td>
<td>Oral Session I—MBH 104 at 9:15 a.m.</td>
</tr>
<tr>
<td>Borrman, Max '20</td>
<td>Poster Session II—MBH 331 and 338 at 2:45 p.m., Poster 28</td>
</tr>
<tr>
<td>Bouteille, Christopher '18</td>
<td>Oral Session I—MBH 216 at 9:55 a.m.</td>
</tr>
<tr>
<td>Boyle, Colin '18</td>
<td>Oral Session II—MBH 403 at 11:35 a.m.</td>
</tr>
<tr>
<td>Bradbury, Chris '19</td>
<td>Poster Session I—MBH Great Hall at 10:30 a.m., Poster 2</td>
</tr>
<tr>
<td>Brady, Ethan '18</td>
<td>Oral Session II—MBH 303 at 11:35 a.m.; Poster Session II—MBH Great Hall at 2:45 p.m., Poster 37</td>
</tr>
<tr>
<td>Braun, Tatum '20</td>
<td>Evening Event—MBH Observatory at 9:00 p.m.</td>
</tr>
<tr>
<td>Brook, Christina '18</td>
<td>Oral Session III—MBH 220 at 2:10 p.m.</td>
</tr>
<tr>
<td>Brown, Becca '18.5</td>
<td>Oral Session IV—MBH 311 at 3:50 p.m.</td>
</tr>
<tr>
<td>Brown, Danielle '21</td>
<td>Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1</td>
</tr>
<tr>
<td>Brown, Wilson '19</td>
<td>Poster Session I—MBH Great Hall at 10:30 a.m., Poster 21</td>
</tr>
<tr>
<td>Browne, Alex '18</td>
<td>Poster Session II—MBH 331 and 338 at 2:45 p.m., Poster 28</td>
</tr>
<tr>
<td>Buchman, Daniel '18.5</td>
<td>Oral Session I—MBH 104 at 9:35 a.m.</td>
</tr>
<tr>
<td>Bullen, Kathryn '18</td>
<td>Oral Session II—MBH 216 at 12:15 p.m.</td>
</tr>
<tr>
<td>Campbell, Pat '20</td>
<td>Poster Session I—MBH Great Hall at 10:30 a.m., Poster 2</td>
</tr>
<tr>
<td>Carlson, Alexander '18</td>
<td>Poster Session I—MBH Great Hall at 10:30 a.m., Poster 9</td>
</tr>
<tr>
<td>Cartwright, Samuel '18</td>
<td>Poster Session I—MBH Great Hall at 10:30 a.m., Poster 22; Oral Session IV—MBH 438 at 3:30 p.m.; Evening Event—MBH Observatory at 9:00 p.m.</td>
</tr>
<tr>
<td>Castillo, Miguel '18</td>
<td>Oral Session III—MBH 303 at 1:30 p.m.</td>
</tr>
<tr>
<td>Chong, Robert '20</td>
<td>Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1</td>
</tr>
<tr>
<td>Chugh, Mira '20</td>
<td>Oral Session II—MBH 411 at 11:55 a.m.</td>
</tr>
<tr>
<td>Clarick, Sasha '19</td>
<td>Oral Session II—MBH 438 at 11:55 a.m.; Evening Event—MBH Observatory at 9:00 p.m.</td>
</tr>
<tr>
<td>Claxton, Joshua '18</td>
<td>Poster Session II—MBH 331 and 338 at 2:45 p.m., Poster 28</td>
</tr>
<tr>
<td>Coffin, Sadie '19</td>
<td>Evening Event—MBH Observatory at 9:00 p.m.</td>
</tr>
<tr>
<td>Cogswell, Nicholas '18</td>
<td>Poster Session II—MBH Great Hall at 2:45 p.m., Poster 34</td>
</tr>
<tr>
<td>Cohen, David '20</td>
<td>Poster Session II—MBH Great Hall at 2:45 p.m., Poster 39; Evening Event—MBH Observatory at 9:00 p.m.</td>
</tr>
<tr>
<td>Cole, Hunter '18</td>
<td>Poster Session II—MBH Great Hall at 2:45 p.m., Poster 43</td>
</tr>
<tr>
<td>Conno, Brigid '21</td>
<td>Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1</td>
</tr>
<tr>
<td>Corsico, Sarah '18</td>
<td>Poster Session II—MBH Great Hall at 2:45 p.m., Poster 41</td>
</tr>
<tr>
<td>Crandall, Jennifer '20</td>
<td>Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1; Oral Session I—MBH 219 at 11:55 a.m.</td>
</tr>
<tr>
<td>Cross, Toni '18</td>
<td>Oral Session III—MBH 411 at 1:50 p.m.</td>
</tr>
<tr>
<td>Cuba, Luba '19</td>
<td>Poster Session I—MBH Great Hall at 10:30 a.m., Poster 2</td>
</tr>
<tr>
<td>del Cid, Javier '18</td>
<td>Oral Session I—MBH 303 at 10:15 a.m.</td>
</tr>
<tr>
<td>DeLorenzo, Perry '20</td>
<td>Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1</td>
</tr>
<tr>
<td>Desmarais, Julia '18</td>
<td>Oral Session II—MBH 220 at 11:35 a.m.</td>
</tr>
<tr>
<td>Dial, Christopher '19</td>
<td>Oral Session IV—MBH 219 at 4:30 p.m.</td>
</tr>
<tr>
<td>Diaz, Bryan '20</td>
<td>Oral Session IV—MBH 216 at 4:10 p.m.</td>
</tr>
<tr>
<td>Diaz Condejo, Itzel '20.5</td>
<td>Oral Session IV—MBH 216 at 3:50 p.m.</td>
</tr>
<tr>
<td>Dilbenedetto, Pablo '20</td>
<td>Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1</td>
</tr>
<tr>
<td>D'Ilario, Will '19</td>
<td>Oral Session III—MBH 104 at 1:30 p.m.</td>
</tr>
<tr>
<td>Dikuyama, Vanessa '18</td>
<td>Oral Session III—MBH 311 at 1:30 p.m.; Poster Session II—MBH 331 and 338 at 2:45 p.m., Poster 28; Oral Session IV—MBH 403 at 4:10 p.m.</td>
</tr>
<tr>
<td>Dillon, Laura '19</td>
<td>Oral Session I—MBH 411 at 9:55 a.m.</td>
</tr>
<tr>
<td>DiPersio, Julian '20</td>
<td>Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1</td>
</tr>
<tr>
<td>Dixon, Nadani '20</td>
<td>Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1</td>
</tr>
<tr>
<td>Do, Jenny '18</td>
<td>Oral Session II—MBH 411 at 12:15 p.m.</td>
</tr>
<tr>
<td>Donohue, Matthew '20</td>
<td>Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1</td>
</tr>
<tr>
<td>Dowling, Will '18</td>
<td>Oral Session II—MBH 403 at 12:15 p.m.</td>
</tr>
<tr>
<td>Druckman, Adam '19</td>
<td>Oral Session IV—MBH 220 at 4:10 p.m.</td>
</tr>
<tr>
<td>Dunlap, Emma '18</td>
<td>Oral Session I—MBH 403 at 9:35 a.m.</td>
</tr>
<tr>
<td>Dutton, Sarah '19</td>
<td>Oral Session III—MBH 438 at 1:50 p.m.</td>
</tr>
<tr>
<td>Dykeman-Bermingham, Peter '18.5</td>
<td>Oral Session III—MBH 538 at 2:30 p.m.</td>
</tr>
<tr>
<td>Eagan, Eleanor '18</td>
<td>Oral Session II—MBH 303 at 11:15 a.m.</td>
</tr>
<tr>
<td>Edwards, Georgia Grace '18</td>
<td>Oral Session I—MBH 311 at 9:15 a.m.; Oral Session II—MBH 219 at 11:15 a.m.</td>
</tr>
<tr>
<td>Eisenberg, Naomi '17</td>
<td>Oral Session I—MBH 220 at 9:35 a.m.; Oral Session III—MBH 303 at 1:30 p.m.; Oral Session IV—MBH 538 at 3:30 p.m.</td>
</tr>
<tr>
<td>Eisenstein, Cara '18</td>
<td>Oral Session I—MBH 216 at 9:15 a.m.</td>
</tr>
<tr>
<td>Engel, Robert '18</td>
<td>Poster Session I—MBH Great Hall at 10:30 a.m., Poster 13</td>
</tr>
<tr>
<td>Erickson, Robert '18</td>
<td>Oral Session IV—MBH 303 at 4:10 p.m.</td>
</tr>
</tbody>
</table>
Espinoza, Dan Miguel '20: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1
F
Fichman, Mia '19: Oral Session I—MBH 311 at 9:15 a.m.
Figueiredo Goncalves, Alyn Cristina '18: Poster Session I—MBH Great Hall at 10:30 a.m., Poster 16; Oral Session III—MBH 104 at 1:30 p.m.
Figueroa, Natalie '18: Oral Session II—MBH 411 at 11:35 a.m.
Fine, Noah '20.5: Poster Session I—MBH Great Hall at 10:30 a.m., Poster 2
Finkelstein, Lauren '18: Oral Session IV—MBH 411 at 2:45 p.m., Poster 28
Fleeton, Colin '20: Poster Session I—MBH Great Hall at 10:30 a.m., Poster 2
Fleming, Henry '20: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 5
Fletcher, Jamison '18: Oral Session II—MBH Great Hall at 10:30 a.m., Poster 1
Freedman, Alexandra '18: Oral Session IV—MBH 220 at 3:50 p.m.
Friedman, Elliott '19: Oral Session I—MBH 331 and 338 at 10:30 a.m., Poster 1
Fryer, Minori '18: Oral Session III—MBH 438 at 2:30 p.m., Poster 1
G
Gains, Stacey '19: Poster Session I—MBH Great Hall at 10:30 a.m., Poster 15
Gonzales, Tatso Tom '19: Poster Session II—MBH 331 and 338 at 2:45 p.m., Poster 28
Goudsey, Hans '19.5: Poster Session II—MBH Great Hall at 2:45 p.m., Poster 36
Graham, Margot '18: Oral Session III—MBH 219 at 1:30 p.m.
Greene, Will '19: Poster Session II—MBH 331 and 338 at 2:45 p.m., Poster 28
Guo, Jessica '21: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1
H
Haefele, Mikayla '20.5: Oral Session II—MBH 219 at 11:55 a.m.
Hampsten, Emma '18.5: Oral Session III—MBH 104 at 1:30 p.m.
Hampton, Maddie '18: Oral Session II—MBH 216 at 11:35 a.m.; Oral Session IV—MBH 538 at 3:30 p.m.
Haque, Sabina '18: Oral Session II—MBH 438 at 11:35 a.m.
Harutyunyan, Hayk '18: Oral Session III—MBH 438 at 2:30 p.m.
Hayes, Mike '20: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1
Healy, Shana '18: Oral Session I—MBH 438 at 9:15 a.m.
Heilitzer, Eliane '18: Oral Session II—MBH 403 at 11:55 a.m.
Heller, Skyler '21: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1
Herrickson, Tanner '21: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1
Herscowitz, Jack '20: Oral Session IV—MBH 219 at 4:10 p.m.
Holley, Richard '20: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1
Hollyday, Andrew '18.5: Oral Session II—MBH 438 at 11:15 a.m.
Howard, Sarah '19: Poster Session II—MBH 331 and 338 at 2:45 p.m., Poster 28
Howe, Peter '18.5: Poster Session II—MBH 331 and 338 at 2:45 p.m., Poster 28
Hoynes, Erin '19: Poster Session II—MBH 331 and 338 at 2:45 p.m., Poster 28
Hudson, Hannah '18: Oral Session III—MBH 411 at 2:30 p.m.
Huntington, Alissa '18: Oral Session III—MBH 538 at 1:00 p.m.
Hyman, Mikayla '20: Oral Session I—MBH 219 at 10:15 a.m.
I
Insinot, Adin '20: Evening Event—MBH Observatory at 9:00 p.m.
Izzard, Alexandra '20: Poster Session II—MBH Great Hall at 2:45 p.m., Poster 30
J
Jaburi, Razan '18: Oral Session I—MBH 311 at 9:15 a.m.; Oral Session III—MBH 303 at 1:30 p.m.; Oral Session IV—MBH 411 at 4:10 p.m.
Jackson, Sierra '18: Oral Session II—MBH 216 at 11:15 a.m.
Jaschke, Caroline '18: Oral Session I—MBH 403 at 9:55 a.m.
Jibril, Rand '20: Oral Session II—MBH 216 at 12:15 p.m.
Job, Nina '18: Poster Session II—MBH Great Hall at 2:45 p.m., Poster 31
Joseph, Kizzy '18: Oral Session II—MBH 104 at 11:35 a.m.
Joseph, Maggie '20: Evening Event—MBH Observatory at 9:00 p.m.
K
Kaelin, Sam '19.5: Poster Session I and II—MBH Great Hall at 10:30 a.m. and 2:45 p.m., Poster 3
Kararat, Sarah '18: Oral Session II—MBH 220 at 11:55 a.m.
Kelly, Audrey '21: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1
Kembali, Molly '18: Oral Session III—MBH 216 at 1:30 p.m.
Knox, Elizabeth '20: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1
Knoutson, Mahli '20: Oral Session I—MBH 311 at 10:00 a.m.
Kobayashi, Karen '18: Oral Session III—MBH 311 at 1:30 p.m.
Koch, Sarah '18.5: Oral Session I—MBH 219 at 9:55 a.m.
Kramer, Alison '18: Oral Session IV—MBH 219 at 3:50 p.m.
Kuipers, Anja '18: Oral Session IV—MBH 303 at 3:30 p.m.
Kunin, Sara '20: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1
Landis, Annika '20: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1
Lannoy, Thibault '20: Evening Event—MBH Observatory at 9:00 p.m.
LaPointe, Sebastian '18: Oral Session I—MBH 411 at 10:15 a.m.
Lawlor, Parker '18: Oral Session I—MBH 220 at 10:15 a.m.
Lee, Karen Hiu-Tung '18: Poster Session II—MBH Great Hall at 2:45 p.m., Poster 45
Lehman, Michelle '19: Poster Session II—MBH Great Hall at 2:45 p.m., Poster 29
Leiter, Sophie '18: Oral Session II—MBH 303 at 12:15 p.m.
Lenhard, Nora '18: Oral Session II—MBH 538 at 11:15 a.m.
Li, Steven '18: Oral Session IV—MBH 411 at 4:30 p.m.
Lloyd, Connor '20: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1
Low, Aaron '18.5: Oral Session II—MBH 411 at 11:15 a.m.
Lutzius, Max '20.5: Oral Session III—MBH 311 at 1:30 p.m.
Lynch, Sylvia '18: Oral Session II—MBH 220 at 12:15 p.m.
M
MacKintosh, William '20: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1
Magruder, Caitlin '20: Poster Session II—MBH Great Hall at 2:45 p.m., Poster 49
Mahdavi, Addie '18: Oral Session IV—MBH 216 at 3:30 p.m.
Maloney, Madeline '19: Poster Session II—MBH Great Hall at 2:45 p.m., Poster 40
Martin, Peter '19: Poster Session I—MBH Great Hall at 10:30 a.m., Poster 2
Masinter, Jessica '19: Oral Session IV—MBH 220 at 4:30 p.m.
Matlashvili, Tamar '18: Oral Session III—MBH 438 at 1:30 p.m.; Oral Session IV—MBH 403 at 3:30 p.m.
McCormick, Connor '18: Oral Session I—MBH 303 at 9:55 a.m.
McCready, Haley '20: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1
McDaniel, David 19: Poster Session I—MBH Great Hall at 10:30 a.m., Poster 2
McDonagh, Emma 19: Oral Session III—MBH 311 at 1:30 p.m.
McDow, Christine 21: Oral Session III—MBH 219 at 2:45 p.m.
McElroy, Leo 18: Poster Session II—MBH Great Hall at 2:45 p.m., Poster 44
McGinn, Miyo 20: Oral Session IV—MBH 538 at 3:30 p.m.
Mckissick, Wyliss 20: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1
McMahon, Mercedes 18.5: Oral Session IV—MBH 438 at 4:30 p.m.
Meredith, Kyle 19: Poster Session II—MBH Great Hall at 2:45 p.m., Poster 35
Messghani, Sarady 19: Poster Session II—MBH Great Hall at 2:45 p.m., Poster 33
Meuse, Jason 18: Oral Session I—MBH 303 at 9:35 a.m.
Millard, Hazel 18: Oral Session III—MBH 219 at 10:30 a.m., Poster 1
Miller, Georgiana 18: Oral Session II—MBH 311 at 1:30 p.m.; Poster Session II—MBH 331 and 338 at 2:45 p.m., Poster 28
Miller, Magda 18: Oral Session III—MBH 403 at 2:10 p.m.
Mohamed, Abdiibabar 18.5: Oral Session III—MBH 303 at 1:30 p.m.
Mohamed, Fiona 18: Oral Session II—MBH 311 at 11:35 a.m.
Moran, Delaney 18: Poster Session I—MBH Great Hall at 10:30 a.m., Poster 7
Morgan, Maddison 18: Poster Session II—MBH Great Hall at 2:45 p.m., Poster 42
Morrison, Daryl 18.5: Oral Session II—MBH 538 at 11:55 a.m.
Morton, Mika 19: Oral Session I—MBH 219 at 10:15 a.m.
Mosier, Nicholas 20: Poster Session II—MBH Great Hall at 2:45 p.m., Poster 35
Moskowitz, Emma 18: Poster Session I—MBH Great Hall at 10:30 a.m., Poster 17
Mueller, Tabitha 18: Oral Session III—MBH 216 at 1:50 p.m.; Poster Session II—MBH 331 and 338 at 2:45 p.m., Poster 28; Oral Session IV—MBH 216 at 4:30 p.m.
Nakagawa, Erika 21: Oral Session II—MBH 411 at 11:55 a.m.
Nakano, Mikki 20: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1
Nasir, Ibrahim 20: Poster Session I—MBH Great Hall at 10:30 a.m., Poster 2
Nova, Maria Del Sol 18: Oral Session II—MBH 104 at 11:55 a.m.
Nishimoto, Kazuto 20.5: Poster Session II—MBH 331 and 338 at 2:45 p.m., Poster 28
Nolan, Seamus 19: Poster Session II—MBH 331 and 338 at 2:45 p.m., Poster 28
Norris, Emmet 18: Oral Session IV—MBH 403 at 3:50 p.m.
O’Connor, Gillian 21: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1
O’Dell, Jonathan 18.5: Oral Session I—MBH 438 at 10:15 a.m.
Ortega, Jennifer 18: Oral Session IV—MBH 311 at 4:30 p.m.
Ou, Jeffrey 19: Evening Event—MBH Observatory at 9:00 p.m.
Owen, Caroline 18: Oral Session IV—MBH 219 at 3:30 p.m.
Pallozzi, Mike 18.5: Oral Session IV—MBH 538 at 3:30 p.m.
Pandey, Ojaswi 18: Oral Session II—MBH 331 and 338 at 2:45 p.m., Poster 28
Park, Sunho 18: Poster Session II—MBH Great Hall at 2:45 p.m., Poster 38
Paudyal, Crystal 19: Poster Session I—MBH Great Hall at 10:30 a.m., Poster 20
Payne, Emory 18: Oral Session II—MBH 219 at 11:35 a.m.
Peacock, Carson 18: Oral Session IV—MBH 538 at 3:30 p.m.
Peters, Zack 18.5: Oral Session II—MBH 219 at 12:15 p.m.
Petersen, Luke 19: Poster Session I—MBH Great Hall at 10:30 a.m., Poster 2
Petersen, Spence 18: Poster Session II—MBH 331 and 338 at 2:45 p.m., Poster 28
Phyu, Moe Pwint 18: Poster Session I—MBH Great Hall at 10:30 a.m., Poster 6
Pimenov, Dasha 21: Oral Session IV—MBH 411 at 3:50 p.m.
Pipas, Victoria 18: Oral Session IV—MBH 303 at 3:50 p.m.
Piloto, Maxwell 20: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1
Porterfield, Kate 18.5: Poster Session I—MBH Great Hall at 10:30 a.m., Poster 4
Potter, Benjamin 20: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1
Proctor, Atticus 18: Oral Session III—MBH 538 at 2:10 p.m.
Psychas, Oscar 21: Evening Event—MBH Observatory at 9:00 p.m.
Purcell, John 20: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1
Pumphrey, Lane 20: Poster Session I—MBH 331 and 338 at 2:45 p.m., Poster 28
Quenneville, Dylan 18: Oral Session III—MBH 403 at 2:30 p.m.
Raffel, Becca 18: Oral Session II—MBH 538 at 12:15 p.m.
Ralph, Jack 18: Oral Session III—MBH 104 at 1:30 p.m.
Ramachandran, Vignesh 18: Oral Session II—MBH 303 at 11:55 a.m.
Ramsey, Ryan 18.5: Oral Session II—MBH 403 at 11:15 a.m.; Poster Session I—MBH Great Hall at 2:45 p.m., Poster 50
Realta, Matthew 18: Poster Session I—MBH Great Hall at 10:30 a.m., Poster 23
Renner, Liddy 18: Oral Session IV—MBH 403 at 3:30 p.m.
Rich, Harry 17.5: Poster Session I—MBH Great Hall at 10:30 a.m., Poster 2
Ritz, Kaley 20: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1
Rivitz, Benjamin 20: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1
Robbins, Liesel 18: Poster Session I—MBH Great Hall at 10:30 a.m., Poster 8; Oral Session III—MBH 538 at 1:30 p.m.; Poster Session II—MBH 331 and 338 at 2:45 p.m., Poster 28
Ronai-Durning, Emma 18.5: Poster Session II—MBH 331 and 338 at 2:45 p.m., Poster 28
Rubinstein, David 18: Oral Session I—MBH 311 at 10:00 a.m.
Rudolph, Ryan 18: Poster Session I—MBH Great Hall at 10:30 a.m., Poster 2
Ryder, Olivia 19: Oral Session III—MBH 311 at 1:30 p.m.
Sakon, Shio: Evening Event—MBH Observatory at 9:00 p.m.
Sanchez Chico, Ana 18: Oral Session IV—MBH 438 at 3:50 p.m.
Santoso, Monique 21: Oral Session II—MBH 104 at 11:15 a.m.
Saunders, Erika 18: Oral Session IV—MBH 311 at 4:10 p.m.
Schmidt, Patrick 18: Poster Session I—MBH Great Hall at 10:30 a.m., Poster 10; Poster Session II—MBH 331 and 338 at 2:45 p.m., Poster 28
Schmitt, Trevor 18: Poster Session I—MBH Great Hall at 10:30 a.m., Poster 2
Scibilia, Peter 21: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1
Scura, Ian 19.5: Oral Session III—MBH 104 at 1:30 p.m.
Seavey, Emile 18: Poster Session I—MBH Great Hall at 10:30 a.m., Poster 14
Sheidok, Tyler 18: Poster Session II—MBH 331 and 338 at 2:45 p.m., Poster 28
Shores, Spencer 20: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1
Shotton, Charlie 18: Oral Session III—MBH 403 at 9:15 a.m.
Shrader, Michael 18: Oral Session III—MBH 303 at 1:30 p.m.
Shumway, Emma 18: Poster Session I—MBH Great Hall at 10:30 a.m., Poster 24
Takeda, Haruna '18: Oral Session I—MBH 311 at 10:00 a.m.; Evening Event—MBH Observatory at 9:00 p.m.
Tanioka, Mari '18: Oral Session III—MBH 403 at 1:50 p.m.
Tanco, Dominick '18: Oral Session IV—MBH 220 at 3:30 p.m.
Terrazas, Salim '18: Oral Session III—MBH 403 at 1:30 p.m.
Tories, Spencer '19: Poster Session I—MBH Great Hall at 10:30 a.m., Poster 2
Travis, Avery '18: Evening Event—MBH Observatory at 9:00 p.m.
Travnikova, Lynn '20: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1
Trubio, Olivia '18: Poster Session I—MBH Great Hall at 10:30 a.m., Poster 12
Tulloch, Meredith '18: Oral Session I—MBH 220 at 9:55 a.m.
V
Vols, Jacob '18: Oral Session II—MBH 438 at 12:15 p.m.
W
Waldman, Kira '20: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1; Poster Session II—MBH Great Hall at 2:45 p.m., Poster 3
Walker, Christopher '20: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1
Weed, Roo '18.5: Evening Event—MBH Observatory at 9:00 p.m.
Weinstein, Brigett '20: Poster Session II—MBH Great Hall at 2:45 p.m., Poster 32
Weitzner, Tess '18.5: Oral Session III—MBH 411 at 1:30 p.m.
Wentworth, Thomas '18: Poster Session I—MBH Great Hall at 10:30 a.m., Poster 18; Oral Session III—MBH 311 at 1:30 p.m.; Poster Session II—MBH 331 and 338 at 2:45 p.m., Poster 28
Wesolowski, Hayle '18: Oral Session III—MBH 216 at 2:30 p.m.
Wilhelm, Henry '20: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1
Williams, Martin '20: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1
Williamson, Bryce '18: Oral Session I—MBH 303 at 9:15 a.m.
Willig, Simon '18: Oral Session II—MBH 311 at 11:15 a.m.
Wilner, Joel '18: Oral Session IV—MBH 438 at 4:10 p.m.
Woramongkhon, Sirawit '18: Poster Session I—MBH Great Hall at 10:30 a.m., Poster 25
Work, Erin '18: Oral Session IV—MBH 311 at 3:30 p.m.
Wysocki, Mika '18: Oral Session I—MBH 216 at 9:35 a.m.
Yu, Ke '18: Poster Session II—MBH Great Hall at 2:45 p.m., Poster 47
Z
Zhu, Yuchen '18: Oral Session I—MBH 216 at 10:15 a.m.
Academic Departments
The foundation of on-campus student research, individual academic departments provide the framework and advising that allow students to pursue research projects. Many departments also share information about undergraduate and postgraduate research opportunities.
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