



— 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 Sneed and Jeff Lahaie of the central systems and network group; Joe Durante and the HelpDesk staff; Petar Mitrevski, Mack Pauly, David Wright, and the media services staff and students; and Bill Koulopoulos, 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 Guttentag, 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, Jessie 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. Ian Martin, Megyn Pitner, 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 '10 Memorial Fund, established in 2008 to honor Norbert's memory and support the annual symposium, an event that exemplifies his appreciation of scholarly inquiry.

———— Middlebury ————
**SPRING STUDENT
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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 Guttentag, 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.

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LETTER FROM THE PRESIDENT

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,

A handwritten signature in cursive script that reads "Laurie L. Patton".

President Laurie L. Patton

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 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, 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

COMPLETE SCHEDULE

8:30–9:00 a.m.

Presenter Check-In and Refreshments

McCardell Bicentennial Great Hall

9:00–9:15 a.m.

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9:15–10:30 a.m.

Session I: Oral Presentations

Crafting Gender, Crafting Identities

Moderated by Matt Lawrence, Assistant Professor of Sociology

McCardell Bicentennial Hall 104

9:15 a.m. In Her Shoes: Marisa Merz and the *Arte Povera* Movement—Claire Borre '18; Sponsor: Kirsten Hoving, History of Art and Architecture

9:35 a.m. Grammatical Gender and Discrimination—Daniel Buchman '18.5; Sponsor: Andrea Robbett, Economics

9:55 a.m. How the Summer Camp Experience Influences Boys' Expectations of Toughness and Expression of Weakness—Joey LaLiberte '18; Sponsor: Matt Lawrence, Sociology and Anthropology

10:15 a.m. Opportunity and Threat in International LGBT Rights Activism—Emma Bliska '18; Sponsor: Sarah Stroup, Political Science

Chinese Places in New Spaces

Moderated by Hang Du, Associate Professor of Chinese

McCardell Bicentennial Hall 216

9:15 a.m. 五味俱全 Every Flavor under the Sun: An Exploration of Yunnan Cuisine—Cara Eisenstein '18; Sponsor: Hang Du, Chinese

9:35 a.m. Authoritarianism in the Age of Big Data: Implications of the Social Credit System on Social Control in China—Mika Wysocki '18; Sponsor: Jessica Teets, Political Science

9:55 a.m. Contemporary Drag Queen Culture in Beijing: Transnationalism in a Chinese Space—Christopher Boutelle '18; Sponsor: Ellen Oxfeld, Sociology and Anthropology

10:15 a.m. Are Chinese Investments in Africa Creating Jobs for Locals?—Yuchen Zhu '18; Sponsor: Caitlin Myers, Economics

Schooling Behavior

Moderated by Trinh Tran, Assistant Professor

of Sociology and Anthropology

McCardell Bicentennial Hall 219

9:15 a.m. Intergenerational Learning: A Look into the Middlebury Community—Jin-Mi Sohn '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: Trinh 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—Haroon Ashraf '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

Motive Forces

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 Afterlife Myths—Jason Meuse '18; Sponsor: Pavlos Sfyroeras, Classics and Classical Studies

9:55 a.m. Does the Timing of Welfare Payments Lead to Increased Drug Treatment Admissions? —Connor McCormick '18; Sponsor: Caitlin Myers, Economics

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

The Good, the Bad, and the Ugly/

Domestication vs. Foreignization

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, Razan Jabari '18; Sponsor: Erik Bleich, Political Science

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

Sex, 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

10:15 a.m. *Faust* and *Don Juan*: Manifestations of Sex and the Divine in European Fiction—Andrew Smith '18; Sponsor: Stephen Donadio, Humanities

Framing the Environment

Moderated by Jon Isham, Professor of Economics

McCardell Bicentennial Hall 411

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—Ry Storey-Fisher '18; Sponsor: Jon Isham, Environmental Studies

9:55 a.m. Human Rights on the Altars of Extractive Economies: A Case Study of Tiltil 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 438

9:15 a.m. “An Indescribable Chemistry”: Fandom 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

10:00 a.m.–4:00 p.m.

Art Exhibits

Johnson Memorial Building

The Pit: Senior Independent Study Studio Class

Sponsor: Sanford Mirling, Studio Art

Works by Iram Asghar '18, Raine Ellison '19, Emma Harnett '18, Michaela Lombard '19, Georgiana Miller '18, Olivia Ryder '19, Benjamin Sanders '18, Weston Uram '18

Open Studio in Room 203: ART 370 Oil Painting and Ceramics: "Portraits of Power"

Sponsor: James Butler, Studio Art

Works by Roshan Babu '20, Emma Harnett '18, Athena Haywood '20, Kevin Hernandez '20, Reed Martin '19, Kyle Meredith '19, Madi Nunn '20, William Pannos '20, Charlotte Reider-Smith '19, Chase Royer '21, Olivia Ryder '19, Margaret Weber '18

Hallway Outside Room 205: ART 300 Advanced Drawing

Sponsor: Hedya Klein, Studio Art

Works by Marcella Cimino Avery '18, Bridget Donner '20, Sol Manuel Garza '21, Jack Hamed '18, Emma Harnett '18, Hannah Hudson '18, Rachael Salerno '18.5, Noah Sauer '20, Millie von Platen '18.5

Projections of an Online Exhibition in Room 205:

ART 388 Pictures in Space

Sponsor: Michelle Leftheris, Studio Art

Works by Jesusdaniel Barba '18, Tenzin Dorjee '20, Tahira Hasan '21, Maria Ramirez '21, Charlotte Reider-Smith '19, Olivia Ryder '19, Auberin Strickland '18, Olivia Tubio '18, Isabel Weber Cravioto '19.5, Gabriel Weisbuch '18

Hallway Outside Room 208: ART 380 Photography NOW

Sponsor: Michelle Leftheris, Studio Art

Works by Phillip Brand '18.5, Alexander Browne '18, Emma Harnett '18, Charles Huntington '19.5, Sierra Jackson '18, William Lupica '18, Kayla Nahi '18, Jane Nguyen, Emilio Ovalles-Misterman '19, Ruby Paulino '18, Hannah Pustejovsky '18, Alice Roberts '18, Isabelle Tabah '18, Julia Trencher '18, Bradford Willis '19, Weiru Ye '19, Jeremy Yeager '18, Zarai Zaragoza '18

Johnson Mezzanine: ART 315 Intaglio Prints

Sponsor: Hedya Klein, Studio Art

Works by Lyn Ackert-Smith '20.5, Olivia Bravo '20, Ellie Eberlee '20, Olivia Ryder '19, Noah Sauer '20, Jay Silverstein '19, Matia Whiting '19

10:30–11:15 a.m.

Poster Presentations: Group 1 and Refreshments

McCardell Bicentennial Great Hall, 331, and 338

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

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

Section A: Saher Al-Khamash '21, Jacqueline Atkins '20, Raffi Barsamian '21, Danielle Brown '21, Brigid Connor '21, Perry DeLorenzo '20, Pablo DiBenedetto '20, Nadani Dixon '20, Dan Miguel Espinosa '20, Nicholas Floe '21, Tanner Hellickson '21, Connor Lloyd '20, William MacKintosh '20, Wyllis McKissick '20, Gillian O'Connor '21, Maxwell Polito '20, Charles Smith '20, Chloe Smith '21; Sponsor: James Berg, English and American Literatures

Section B: Marquise Adeleye '20, Ayesha Bhalla '20, Robert Cheng '20, Julian DiPersio '20, Jessica Guo '21, Mike Hayes '20, Skyler Heller '21, Audrey Kelly '21, Elizabeth Knox '20, Sara Kunin '20, Annika Landis '20, Ayman Quadir '20, Benjamin Rivitz '20, Peter Scibilia '21, Kira Waldman '20, Christopher Walker '20; Sponsor: Marion Wells, English and American Literatures

Section C: Ginger Adams '20, Cam Allan '20, Stefan Asamoah '20, Jennifer Crandall '20, Matthew Donohue '20, Henry Fleming '20, Richard Holley '20, Haley McCreary '20, Miki Nakano '20, Benjamin Potter '20, John Purcell '20, Kaley Ritz '20, Spencer Shores '20, Emily Soule '20, Lynn Travnikova '20, Henry Wilhelm '20, Martin Williams '20; Sponsor: Jonathan Miller-Lane, Education Studies

2. Material Culture in Focus: Constructing a Relic Chair—Grayson Ahl '19.5, Chris Bradbury '19, Pate Campbell '20, Lubo Cuba '19, Noah Fine '20.5, Colin Flaherty '20, Peter Martin '19, David McDaniel '19, Ibrahim Nasir '20, Luke Peterson '19, Harry Rich '17.5, Ryan Rudolph '18, Trevor Schmitt '18, Eric Haotian Sun '20, Spencer Tonies '19; Sponsor: Ellery Foutch, American Studies

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 *Winter Pasture* and *Altay's Corner*—Moe Pwint Phyu '18; Sponsor: Jingling Chen, Chinese

7. Patterns of Motor 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—Liesel 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 Robbett, Economics

10. Intersections of Wildfire 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

12. Museum Design for Middlebury College: Architectural Studies Thesis—Olivia Tubio '18; Sponsor: John McLeod, History of Art and Architecture

13. The Women of Andalucía—Robert Engel '18; Sponsor: Tamar Mayer, International and Global Studies

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 Sheldon, 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 Goins '19; Sponsor: Robert Cluss, Chemistry and Biochemistry

16. Comparing Vulnerability Indices in Malawi—Alyne Cristina Figueiredo Goncalves '18.5; Sponsor: Joseph Holler, Geography

17. Optimization of a Two-Photon Laser Scanning Microscope—Emma Moskovitz '18; Sponsor: Michael Durst, Physics

18. The Impact of Real-Time Visual Feedback on Electric Consumption at Middlebury College—Thomas Wentworth '18; Sponsor: Michelle McCauley, Psychology

19. Bmi1 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

21. Massachusetts Policy on Atlantic Cod in the Gulf of Maine: Failure of the Quota System and Examination of a Fish Tax—Wilson Brown '19; Sponsor: Julia Berazneva, Economics

22. Geology of the Lunar Moscoviense Basin—Samuel Cartwright '18; Sponsor: Jonathan Kemp, Sciences Tech Support Services

23. Parameterization of a Forest Growth Model for Addison County, Vermont—Matthew Reala '18; Sponsor: David Allen, Biology
24. The Effect of Moral Foundations Framing and Political Identity Priming on Environmental Attitudes—Emma Shumway '18; Sponsor: Michelle McCauley, Psychology
25. Combinatorial Nullstellensatz and No-Four-on-a-Circle Problem—Sirawit Woramongkhon '18; Sponsor: John Schmitt, Mathematics

26. Does Forest Loss Increase Human Disease? Evidence from Tanzania—Jonah Simon '18; Sponsors: Julia Berazneva, Economics; Tanya Byker, Economics

27. The Effect of Calcite-Bearing Veins on Groundwater Geochemistry—Nathan Beningson '18; Sponsor: Peter Ryan, Geology

11:15 a.m.–12:30 p.m.

Session II: Oral Presentations

Express Yourself

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

McCardell Bicentennial Hall 104

- 11:15 a.m. The Changing Practices of Texting Abbreviations—Monique Santoso '21; Sponsor: Shawna Shapiro, Writing and Rhetoric Program
- 11:35 a.m. Songs of My Soul: Healing and the Black Music Tradition—Kizzy Joseph '18; Sponsor: Will Nash, American Studies
- 11:55 a.m. The Adaptation of Italian Language and Dialects as Identity—Maria Del Sol Nava '18; Sponsor: Ilaria Brancoli Busdraghi, Italian
- 12:15 p.m. Ethics as First Philosophy: Responses to Skepticism in Levinas and Cavell—Bernardo Andrade '18; Sponsor: John Spackman, Philosophy

Making the Lens Visible: The Influence of Medium and Message

Moderated by Amanda Crocker, Assistant Professor of Neuroscience

McCardell Bicentennial Hall 216

- 11:15 a.m. Reality TV and Disability: Kylie Jenner as Disability Savior—Sierra Jackson '18; Sponsor: Susan Burch, American Studies
- 11:35 a.m. On Walter De Maria: The Problem of Representing His Naoshima Works—Maddie Hampton '18; Sponsor: Eliza Garrison, History of Art and Architecture
- 11:55 a.m. Inaccessible and Misinterpreted: Understanding Science in Today's World—Mackenzie Yedlin '18; Sponsor: Amanda Crocker, Neuroscience
- 12:15 p.m. U.S. and U.K. Media Portrayal of Refugees and Asylum Seekers—Kathryn Bullen '18, Rand Jibril '20, Emily Stabler '19; Sponsor: Erik Bleich, Political Science

Technologically Driven Interactions

Moderated by Ryan Clement, Data Services Librarian

McCardell Bicentennial Hall 219

- 11:15 a.m. The Age of Wi-Fi in Cuba: Trends, Use and Distribution between *Habaneros* and *Extranjeros*—Georgia Grace Edwards '18; Sponsor: William Pyle, Economics

11:35 a.m. Influence of Surfactant Headgroup Charge Density on Removal of Aromatic Contaminants from Water by Surfactant-Modified Montmorillonite—Emory Payne '18; Sponsor: Molly Costanza-Robinson, Chemistry and Biochemistry

11:55 a.m. Agriculture Extension in the Peruvian Andes: Exploring the Relationship between Farmers and Technicians—Jennifer Crandall '20, Mikayla Haefele '20.5; Sponsor: Orion Lewis, Political Science

12:15 p.m. Investigating Post-Translational Regulation of the SloR Metalloregulator in *Streptococcus mutans*—Zack Peters '18.5; Sponsor: Grace Spatafora, Biology

Women Negotiating the Margins

Moderated by Laurie Patton, President of Middlebury College

McCardell Bicentennial Hall 220

- 11:15 a.m. Tax on Blood: Access, Boundaries, and Class in the Discourses on Menstruation in India—Priyanjali Sinha '18; Sponsor: Ellen Oxfeld, Sociology and Anthropology
- 11:35 a.m. Rumors and Gawking: How Women Judge Men—A Look at the Literary Female Gaze and Narration in *Pride and Prejudice* and Its Modern-Day Adaptations—Julia Desmarais '18; Sponsor: Antonia Losano, English and American Literatures
- 11:55 a.m. Unraveling Bonds, Broadening Contours: Excavating the Matrilineal Nair Woman from the Colonial Archive—Sarah Karerat '18; Sponsor: Sujata Moorti, Gender, Sexuality, and Feminist Studies
- 12:15 p.m. *La Vie en Blanche*: The Gendered Experience of Women with Albinism in Cameroon and Tanzania—Sylvia Lynch '18; Sponsor: Michael Sheridan, Sociology and Anthropology

Pressure Cookers

Moderated by Jim Ralph, Professor of American History and Culture

McCardell Bicentennial Hall 303

- 11:15 a.m. The Banality of Trafficking: Exploitation in Migrant Labor Markets in Bahrain and the United Arab Emirates—Eleanor Eagan '18; Sponsor: Sarah Stroup, Political Science
- 11:35 a.m. Suburb and Spring: An Architectural History of Two American Towns, 1893–1918—Ethan Brady '18; Sponsor: Jim Ralph, History

11:55 a.m. Refugee Camps as Neoliberal Space: The Case of Zaatari 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—Eliane Helitzer '18; Sponsors: Tanya Byker, Economics; Sarah Stroup, Political Science

12:15 p.m. The Formation of Party Identification: How Economics, Social Groups, and Other Factors Influence Our Political Opinions—Will Dowling '18; Sponsor: Bert Johnson, Political Science

What's Language Got to Do with It?

Moderated by Brandon Baird, Assistant Professor of Spanish

McCardell Bicentennial Hall 411

11:15 a.m. Language and Behavior—Aaron Low '18.5; Sponsor: Andrea Robbett, Economics

11:35 a.m. Agents of the Times: The Role of Intercultural Bilingual Education and the Post-Peace Accords Generation in the Maya Movement—Natalie Figueroa '18; Sponsor: Brandon Baird, Spanish and Portuguese

11:55 a.m. Media Portrayals of Victims of Sexual Assault and Misconduct—Mira Chugh '20, Jamison Fletcher '18, Erika Nakagawa '21; Sponsor: Erik Bleich, Political Science

12:15 p.m. "How to Be Funny in Japanese," or *Kobanashi* in the Modern World: Independent Research Results—Jenny Do '18; Sponsor: Linda White, Japanese Studies

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 Clarick '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 Ependymin 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.

1:30–2:45 p.m.

Session III: Oral Presentations

Videographic Film and Media Studies

Moderated by Sinead Keirans, Assistant in Instruction for Film and Media Culture

McCardell Bicentennial Hall 104

- 1:30 p.m. A Showcase of Video Essays—Will DiGravio '19, Alyne Cristina Figueiredo Goncalves '18.5, Emma Hampsten '18.5, Jack Ralph '18, Ian Scura '19.5; Sponsor: Jason Mittell, 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 Kemball '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'Roe, Geography; Daniel Brayton, English and American Literatures
- 2:10 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 Freedom Farm Corporation, 1969–1977—Hazel Millard '18; Sponsor: Joyce Mao, History
- 2:30 p.m. Belonging to the Nation: Chinese Immigrants and the Politics of Race and Class in the Mexican Borderlands, 1882–1931—Hayle Wesolowski '18; Sponsor: Maggie Clinton, History

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

- 2:30 p.m. Private Conservation and Rural Gentrification: Exploring Vermont's Affordability Crisis—Otis Streeter '18; Sponsor: Bert Johnson, Political Science

Challenging “Otherness”

Moderated by Jason Vrooman, Museum of Art Curator of Education and Academic Programs

McCardell Bicentennial Hall 220

- 1:30 p.m. Visions from the East: The Beginnings of International Relations as Told by Two Japanese Paintings, 1500–1800—Minoru Fryer '18; Sponsor: Orion Lewis, 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, Razan Jabari '18, Abdijabar Mohamed '18.5, Michael Shrader '18; Sponsor: Nadia Horning, Political Science

Middlebury Zero Energy School Team

Moderated by Jack Byrne, 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 Belinkski '18.5, Vanessa Dikuyama '18, Elliott Friedman '19, Karen Kobayashi '18, Max Lutzus '20.5, Emma McDonagh '19, Georgiana Miller '18, Olivia Ryder '19, Priyanjali Sinha '18, Ry 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. *Akumajō Dracula/Castlemania*: Localization and Franchise Identity—Salim Terrazas '18; Sponsor: Linda White, Japanese Studies
- 1:50 p.m. Collective Memory Construction of the *Ianfu* System in China—Mari Tanioka '18; Sponsor: Ellen Oxfeld, Sociology and Anthropology
- 2:10 p.m. *Amakudari*: Parachute—The Solution to Japan's Economic Stagnation?—Magda Miller '18; Sponsor: Leila Davis, Economics
- 2:30 p.m. The Threat of Drug Use in Japanese and American Gangster Films—Dylan Quenneville '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. Sophie and Sethe: Comparing Paths to Liberation, Embodiment, and Selfhood in Angela Carter's *Nights at the Circus* and Toni Morrison's *Beloved*—Tess Weitzner '18.5; Sponsor: Brett Millier, English and American Literatures
- 1:50 p.m. A Tale of Two Ethnic Groups: The Legacies of Colonialism, Communism, Imperialism, and Nationalism in the Construction of Moroccan Amazigh and Russian Volga Tatar Identities—Toni Cross '18; Sponsor: Rebecca Mitchell, History
- 2:10 p.m. The Housing and Settlement of Refugees in Norway and Sweden: A Comparative Assessment of Policy's Impact on Integration—Hanna Laird '18; Sponsor: Erik Bleich, Political Science
- 2:30 p.m. *Attraverso gli occhi di Bassani e di Magrini*: The Jewish Experience in Ferrara, Italy, during World War II—Hannah Hudson '18; Sponsor: Stefano Mula, Italian

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. All that Glitters Is Gold: Modeling Catalysis of Hydride Shifts—Sarah Dutton '19; Sponsor: AnGayle Vasiliou, Chemistry and Biochemistry
- 2:10 p.m. Estimating External Validity Bias in Randomized Controlled Trials—Trisha Singh '18; Sponsor: Andrea Robbett, Economics
- 2:30 p.m. Modernity and Its Effects on Philosophical Theology: Heidegger, 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. Bedrock Geology of the Ordovician Casco Bay Group, Harpswell, Maine—Atticus Proctor '18; Sponsor: Dave West, Geology
- 2:30 p.m. In Pursuit of Molecular Wires: Attempted Syntheses of Benzocyclobutadiene Chromium Tricarbonyl—Peter Dykeman-Birmingham '18.5; Sponsor: Jeff Byers, Chemistry and Biochemistry

2:45-3:30 p.m.

Poster Presentations: Group 2 and Refreshments

McCardell Bicentennial Great Hall, 331, and 338

The following posters will be on display all day: (2) Material Culture in Focus: Constructing a Relic Chair, and (3) Augmented Reality Sandbox. See the morning poster session for details.

28. An Atlas of National Monuments and Fragments, MBH 331 and 338—Nathan Beningson '18, Max Borrmann '20, Alex Browne '18, Joshua Claxton '18, Vanessa Dikuyama '18, Tatsatom Goncalves '19, Will Greene '19, Sarah Howard '19, Peter Howe '18.5, Erin Hoynes '19, Georgiana Miller '18, Tabitha Mueller '18, Kazuto Nishimori '20.5, Seamus Nolan '19, Spence Peterson '18, Liesel Robbins '18, Emma Ronai-Durning '18.5, Patrick Schmidt '18, Tyler Sheldon '18, Priyanjali Sinha '18, Emily Sun '18, Thomas Wentworth '18; Sponsor: Jeff Howarth, Geography

29. *Streptococcus mutans* Animation—Michelle Lehman '19; Sponsor: Daniel Houghton, Office of Digital Learning and Inquiry

30. Middlebury College Antique Clothing Collection: Fall 2017-Spring 2018—Alexandra Izzard '20; Sponsor: Mira Veikley, Theatre

31. The Relationship between Adult Ixodes Questing Behavior and Temperature, Relative Humidity, and Time of Day during the Late Fall Season—Nina Job '18; Sponsor: David Allen, Biology

32. To Bitch or Not to Bitch: A Pilot Study on Gendered Profanity on Middlebury's Campus—Briggett Weinstein '20; Sponsor: Shawna Shapiro, Writing and Rhetoric Program

33. The Youngest Victims of Maternal Opioid Dependence—Sarady Merghani '19; Sponsor: Amanda Crocker, Neuroscience

34. Strange and Supernatural Tales: A Translation of "Luanyang Xulu Wu" from Ji Yun's *Yuewei Caotang Bijji*—Nicholas Cogswell '18; Sponsor: Carrie Wiebe, Chinese

35. Creating Datasets for 3-D Reconstruction on Mobile Devices—Kyle Meredith '19, Nicholas Mosier '20; Sponsor: Daniel Scharstein, Computer Science

36. Mid-Level Feature Detection in Abstract Images—Hans Goudey '19.5; Sponsor: Christopher Andrews, Computer Science

37. A New Museum of Art for Middlebury College—Ethan Brady '18; Sponsor: John McLeod, History of Art and Architecture

38. Identifying SloR Binding Partners in *Streptococcus mutans*—Sunho Park '18; Sponsor: Grace Spatafora, Biology

39. Designing Ultra-High Vacuum Components and Stabilizing a Laser to Excite Rubidium Atoms to Rydberg States—David Cohen '20; Sponsor: Anne Goodsell, Physics

40. Pilot Study: The Association between Infant Brain Injury and Repeated Anesthesia Exposure—Madeline Maloney '19; Sponsor: Catherine Combelles, Biology

41. Starting from Zero in Paris: How NGOs and Social Initiative Projects Have Been Assisting Refugees and Asylum Seekers in France, 2015 to the Present—Sarah Corsico '18; Sponsor: Erik Bleich, Political Science

42. A Partial Characterization of Novel PFTAIRE Protein Kinase 2—Katherine Morillo '18; Sponsor: Lesley-Ann Giddings, Chemistry and Biochemistry

43. An Exploration of Spatial Relationships between Ambient Noise Levels and U.S. Demographics—Hunter Cole '18; Sponsor: Peter Nelson, Geography

44. Information Measures of Complexity Applied to the Ising Model—Leo McElroy '18; Sponsor: Jeffrey Dunham, Physics

45. What Does Language Do? Applying the Master Narrative Framework to Language Ideologies in Multilingual and Monolingual Speakers—Karen Hiu-Tung Lee '18; Sponsor: Allison Dibianca Fasoli, Psychology

46. Development Patterns of Houston and Adaptive Capacity Post-Hurricane Harvey—Penelope Spencer '18; Sponsor: Joseph Holler, Geography

47. The Art Box—Ke Yu '18; Sponsor: John McLeod, History of Art and Architecture

48. Representing Quantum States with Neural Networks—Graham Booth '18; Sponsor: Chris Herdman, Physics

49. Weapons Possession and Gambling Motivations in Adolescents with Varying Levels of Problem Gambling—Caitlin Magruder '20; Sponsor: Zu Wei Zhai, Psychology

50. Effect of Testosterone Dose on Place Learning in Adult Male Rats—Rajan Ramdev '18.5; Sponsor: Mark Spritzer, Biology

3:30-4:45 p.m.

Session IV: Oral Presentations

Race and Class in the Green Mountain State Moderated by Shawna Shapiro, Associate Professor of Writing, Rhetoric, and Linguistics

McCardell Bicentennial Hall 216

3:30 p.m. Defectiveness and the Ideal Citizen: Borders, Exclusion, and Social Control in Vermont's Eugenics Movement—Addie Mahdavi '18; Sponsor: Susan Burch, American Studies

3:50 p.m. Let's Talk about [Race], Baby—Itzel Diaz Cornejo '20.5; Sponsor: Shawna Shapiro, Writing and Rhetoric Program

4:10 p.m. Conceptions of Inclusivity among Middlebury College Students—Bryan Diaz '20; Sponsor: Shawna Shapiro, Writing and Rhetoric Program

4:30 p.m. Privilege and Pell Grants: Examining Socioeconomic Status on Middlebury's Campus—Tabitha Mueller '18; Sponsor: Sue Halpern, English and American Literatures

In (and Out of) Our Minds

Moderated by Rob Moeller, Assistant Professor of Psychology

McCardell Bicentennial Hall 219

3:30 p.m. Structures in Gravitation and Electromagnetism—Caroline Owen '18; Sponsor: Noah Graham, Physics

3:50 p.m. Does the Self-Administered Interview Protect against Misinformation?—Alison Kraner '18; Sponsor: Jason Arndt, Psychology

4:10 p.m. *Todos Perdidos*: A Composition for Big Band—Jack Herscowitz '20; Sponsor: Damascus Kafumbe, Music

4:30 p.m. Form and Content: Dualism and Non-dualism in the Study of Concepts—Christopher Diak '19; Sponsor: John Spackman, Philosophy

Mechanisms of Violence

Moderated by Jim Douglas, Former Governor of Vermont

McCardell Bicentennial Hall 220

3:30 p.m. Drugs, Crime, and Liberalization: NAFTA's Effects on Drug Use and Crime Rates in the United States—Dominick Tanoh '18; Sponsor: Bert Johnson, Political Science

3:50 p.m. Rockets and Right-Wing Parties: The Impact of Terrorism on Elections in Southern Israel—Alexandra Freedman '18; Sponsor: Sebnem Gumuscu, Political Science

4:10 p.m. State Pursuit of Radiological Weapons: Case Studies on the United States and Egypt—Adam Druckman '19; Sponsor: Orion Lewis, Political Science

4:30 p.m. Themes of Totalitarian Art in Propaganda from the First Peronist Period, 1946-1955—Jessica Masinter '19; Sponsor: Matthew Walker, Russian

The Creative Process: Conventions and Innovations

Moderated by Mira Veikley, Visiting Assistant

Professor of Theatre

McCardell Bicentennial Hall 303

3:30 p.m. Establishing Interdisciplinary Creative Practices with Circus and Poetry—Anja Kuipers '18; Sponsor: Karin Gottshall, English and American Literatures

3:50 p.m. The Poet-Laborer: Poetry as Profession in Georgic Works, from Antiquity to America—Victoria Pipas '18; Sponsor: Stephen Donadio, Humanities

4:10 p.m. Anecdotes and Archetypes: Constructive Memory in Ovid and Proust—Robert Erickson '18; Sponsor: Christopher Star, Classics and Classical Studies

Are You What You Eat? Food, Identity, and Justice

Moderated by Carly Thomsen, Assistant Professor of Gender, Sexuality, and Feminist Studies

McCardell Bicentennial Hall 311

3:30 p.m. Consumptive Womanhood, Reproductive Bodies: Food and Drugs as Sites of Gender Regulation during Pregnancy—Erin Work '18; Sponsor: Carly Thomsen, Gender, Sexuality, and Feminist Studies

3:50 p.m. Gender, Human-Wildlife Conflict, and Environmental Vulnerability in a Postcolonial National Park: A Feminist Analysis of the Sundarbans Mangroves—Becca Brown '18.5; Sponsor: Sujata Moorti, Gender, Sexuality, and Feminist Studies

4:10 p.m. Toward a National Cuisine, Language, and Identity: Reading Italian History through *La Scienza in Cucina di Pellegrino Artusi*—Erika Saunders '18; Sponsor: Sandra Carletti, Italian

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-Madrado, 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 Israel 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

4:45-5:30 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 Lannoy '20, Jeffrey Ou '19, Oscar Psychas '21, Shio Sakon, Haruna Takeda '18, Avery Travis '18, Roo 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.

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

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Dikuyama, Vanessa '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; Oral Session IV—MBH 403 at 4:10 p.m.

Dillon, Laura '19: Oral Session I—MBH 411 at 9:55 a.m.

DiPersio, Julian '20: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1

Dixon, Nadani '20: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1

Do, Jenny '18: Oral Session II—MBH 411 at 12:15 p.m.

Donohue, Matthew '20: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1

Dowling, Will '18: Oral Session II—MBH 403 at 12:15 p.m.

Druckman, Adam '19: Oral Session IV—MBH 220 at 4:10 p.m.

Dunlap, Emma '18: Oral Session I—MBH 403 at 9:35 a.m.

Dutton, Sarah '19: Oral Session III—MBH 438 at 1:50 p.m.

Dykeman-Birmingham, Peter '18.5: Oral Session III—MBH 538 at 2:30 p.m.

E

Eagan, Eleanor '18: Oral Session II—MBH 303 at 11:15 a.m.

Edwards, Georgia Grace '18: Oral Session I—MBH 311 at 9:15 a.m.; Oral Session II—MBH 219 at 11:15 a.m.

Eisenberg, Naomi '18: 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.

Eisenstein, Cara '18: Oral Session I—MBH 216 at 9:15 a.m.

Engel, Robert '18: Poster Session I—MBH Great Hall at 10:30 a.m., Poster 13

Erickson, Robert '18: Oral Session IV—MBH 303 at 4:10 p.m.

Espinosa, 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, Alyne Cristina '18.5: 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 3:30 p.m.

Flaherty, 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 1

Fletcher, Jamison '18: Oral Session II—MBH 411 at 11:55 a.m.

Floe, Nicholas '21: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1

Fortin, Katharine '18: Poster Session I—MBH Great Hall at 10:30 a.m., Poster 5

Freedman, Alexandra '18: Oral Session IV—MBH 220 at 3:50 p.m.

Friedman, Elliott '19: Oral Session III—MBH 311 at 1:30 p.m.

Fryer, Minori '18: Oral Session III—MBH 220 at 1:30 p.m.

G

Goins, Stacy '19: Poster Session I—MBH Great Hall at 10:30 a.m., Poster 15

Goncalves, Tatsatom '19: Poster Session II—MBH 331 and 338 at 2:45 p.m., Poster 28

Goudey, 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, Shane '18: Oral Session I—MBH 438 at 9:15 a.m.

Helitzer, 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

Hellickson, 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 1:50 p.m.

Hyman, Mikayla '20: Oral Session I—MBH 219 at 10:15 a.m.

I

Insoft, 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

Jabari, 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

Karerat, 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

Kemball, 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

Knutson, 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.

Kraner, 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

L

Laird, Hanna '18: Oral Session III—MBH 411 at 2:10 p.m.

LaLiberte, Joey '18: Oral Session I—MBH 104 at 9:55 a.m.

Lally, Michael '18: Oral Session III—MBH 220 at 2:30 p.m.

Lampe, George '18: Poster Session I—MBH Great Hall at 10:30 a.m., Poster 19

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.

Matiashvili, Tamar '18: Oral Session III—MBH 438 at 1:30 p.m.; Oral Session IV—MBH 403 at 4:30 p.m.

McCormick, Connor '18: Oral Session I—MBH 303 at 9:55 a.m.

McCreary, 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 2:10 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, Wyllis '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

Merghani, 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 216 at 2:10 p.m.

Miller, Georgiana '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

Miller, Magda '18: Oral Session III—MBH 403 at 2:10 p.m.

Mohamed, Abdijabar '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: Oral Session II—MBH 538 at 11:35 a.m.

Morillo, Katherine '18: Oral Session I—MBH 438 at 9:55 a.m.; 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

Moskovitz, 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.

N

Nakagawa, Erika '21: Oral Session II—MBH 411 at 11:55 a.m.

Nakano, Miki '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

Nava, Maria Del Sol '18: Oral Session II—MBH 104 at 11:55 a.m.

Nishimori, 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

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.

P

Palozzi, Mike '18.5: Oral Session IV—MBH 538 at 3:30 p.m.

Pandey, Ojaswi '18: Oral Session II—MBH 311 at 11:55 a.m.

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.

Peterson, Luke '19: Poster Session I—MBH Great Hall at 10:30 a.m., Poster 2

Peterson, 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.

Polito, 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

Q

Quadir, Ayman '20: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1

Quenneville, Dylan '18: Oral Session III—MBH 403 at 2:30 p.m.

R

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.

Ramdev, Rajan '18.5: Oral Session II—MBH 403 at 11:15 a.m.; Poster Session II—MBH Great Hall at 2:45 p.m., Poster 50

Reala, 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.

S

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, Emilie '18: Poster Session I—MBH Great Hall at 10:30 a.m., Poster 14

Sheldon, 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 I—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

Simon, Jonah '18: Poster Session I—MBH Great Hall at 10:30 a.m., Poster 26

Singh, Trisha '18: Oral Session III—MBH 438 at 2:10 p.m.

Sinha, Priyanjali '18: Oral Session II—MBH 220 at 11:15 a.m.; Oral Session III—MBH 311 at 1:30 p.m.; Poster Session II—MBH 331 and 338 at 2:45 p.m., Poster 28

Smith, Andrew '18: Oral Session I—MBH 403 at 10:15 a.m.

Smith, Charles '20: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1

Smith, Chloe '21: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1

Sohn, Jin-Mi '18: Oral Session I—MBH 219 at 9:15 a.m.

Soule, Emily '20: Poster Session I—MBH 331 and 338 at 10:30 a.m., Poster 1

Spencer, Penelope '18: Poster Session II—MBH Great Hall at 2:45 p.m., Poster 46

Stabler, Emily '19: Oral Session II—MBH 216 at 12:15 p.m.

Stevens, Austin '18.5: Oral Session I—MBH 411 at 9:15 a.m.

Storey-Fisher, Ry '18: Oral Session I—MBH 411 at 9:35 a.m.; Oral Session III—MBH 311 at 1:30 p.m.

Streeter, Otis '18: Oral Session III—MBH 219 at 2:30 p.m.

Sun, Emily '18: Poster Session II—MBH 331 and 338 at 2:45 p.m., Poster 28

Sun, Eric Haotian '20: Poster Session I—MBH Great Hall at 10:30 a.m., Poster 2

T

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.

Tanoh, 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.

Tonies, 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

Tubio, 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

Volz, 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.

Y

Yedlin, Mackenzie '18: Oral Session II—MBH 216 at 11:55 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.

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