

2 4 T H A N N U A L

ACADEMIC SPREE DAY

APRIL 23, 2014 / 12-4:30 P.M.

ACADEMIC COMMONS / GODDARD LIBRARY
TILTON HALL / HIGGINS UNIVERSITY CENTER



CLARK
UNIVERSITY



CHALLENGE CONVENTION. CHANGE OUR WORLD.

Location Cheat Sheet

Department/Program	Posters are in:	Oral Presentations/Panels are in:
Art History	-	Grace (UC)
Biochemistry and Molecular Biology	Tilton (UC)	-
Biology	Tilton (UC)	-
Chemistry	Tilton (UC)	-
Communication and Culture	Academic Commons	-
Comparative Literature	Academic Commons	-
Computational Science	Academic Commons	-
Computer Science	Academic Commons	Fuller (Library)
Economics	Academic Commons	-
Education	Tilton (UC)	-
English	Academic Commons	Persky (UC)
Environmental Science	Tilton (UC)	-
Geography	Tilton (UC)	Lurie (UC)
Global Environmental Studies	Tilton (UC)	-
History	-	Grace (UC)
Interdisciplinary Projects	Tilton (UC)	Grace (UC)
International Development and Social Change	Tilton (UC)	Lurie (UC)
Management	Academic Commons	-
Mathematics and Computer Science	Academic Commons	Fuller (Library)
Philosophy	Tilton (UC)	-
Physics	Academic Commons	-
Political Science	Academic Commons	Rosenblatt (UC)
Psychology	Tilton (UC)	-
Sociology	Academic Commons	-
Steinbrecher Fellowship Program	-	Lurie (UC)
Urban Development and Social Change	Tilton (UC)	-
Visual and Performing Arts	Abrams Gallery (UC), Tilton (UC), Traina Center	-
Women's and Gender Studies	Academic Commons	-

If the presentation you are looking for isn't listed with the program you think it should be, check under "Interdisciplinary Projects."

Academic Spree Day 2014

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ORAL PRESENTATIONS AND PANELS

Grace Conference Room (University Center-1st Floor)

Interdisciplinary Projects (12:00-2:00pm)

- 12:00-12:20 *How to Capture Student Leadership Potential Through a Redesign of Clark's Club Officer Training.* Chelsea Kryspin '14 (Sponsor: Mary-Ellen Boyle, Dean of the College)
- 12:20-12:45 *Clark Composts.* Devon Miller '16 (Sponsor: Jenny Isler, Campus Sustainability Coordinator)
- 12:45-2:00 *LEEP: Conventionally-Challenged?* Brian Arsenault '14, Radhika Mitter '15, Alina Michelewicz '14, Joe Rossi '14, Noah Stolkner '14, Bryan Diehl '14, Samantha Wallace '16 & Katherine A. Esparza '15 (Sponsor: Professor Jude Fernando)

Art History Honors Program (2:00-3:00pm)

- 2:00-2:20 *Uncanny Reflections in Corinth's At the Mirror: A Psychoanalytic Look at the Effects of a Stroke on Perceptions of Identity.* Stefanie Gough '14 (Sponsor: Professor Kristina Wilson)
- 2:20-2:40 *The Temple at Antiochia ad Cragum: An Examination of Roman Imperial Architectural Mouldings.* Juliana Spahr '14 (Sponsor: Professor Rhys Townsend)
- 2:40-3:00 *The Reconstruction of the Corinthian Capital at Antiochia ad Cragum.* Kristin Withers '14 (Sponsor: Professor Rhys Townsend)

History Honors Program (3:00-4:30pm)

- 3:00-3:10 *Imperial Perceptions: The Construction of the General Gordon Narrative and Britons' perceptions of their Empire, 1885-1905.* Casey Epstein '14 (Sponsor: Professor Nina Kushner)
- 3:10-3:20 *Opposition to the Korean War in the United States.* Jacob Garber '14 (Sponsor: Professor Doug Little)
- 3:20-3:30 *"Further action will be justified" The Decision for Enacting the Quarantine During the Cuban Missile Crisis.* David LaJeunesse '14 (Sponsor: Professor Doug Little)
- 3:30-3:40 *Women in Iraq: From Baathism to Occupation.* Lauren Cyr '14 (Sponsor: Professor Doug Little)
- 3:40-3:50 *The Politics of British Post-Punk.* Derek Medeiros '14 (Sponsor: Professor Nina Kushner)

continued

- 3:50-4:00 *Main Street: A cultural and racial examination of Main Street, Worcester MA in a Post-Industrial framework.* Rachel Cockrill '14 (Sponsor: Professor Ousmane Power-Greene)
- 4:00-4:10- *Identity in Flux: The Construction of Southern Identity through Press Coverage of the Emmett Till Murder and Trial.* Jennifer O'Rourke '14 (Sponsor: Professor Ousmane Power-Greene)
- 4:10-4:20 *Inventing a Foundation Myth: The War of 1812 in Upper Canada.* Jeff Wasson '14 (Sponsor: Professor Drew McCoy)

Lurie Conference Room (University Center-1st Floor)

Geography (12:45-1:25pm)

- 12:45-1:00 *There Ain't No Such Thing As A Free Lunch: Researching A Cheeseburger's Cost to Society with Mark Bittman.* David Prentice '14 (Sponsor: Professor Jody Emel)—LEEP Project
- 1:00-1:25 *Use/User-Inspired Research and Stakeholder Interactions in the Asian Longhorned Beetle Infestation in Worcester, Massachusetts.* Michino Hisabayashi '15 (Sponsors: Professors Deborah Martin & John Rogan)

International Development and Social Change (1:25-1:45pm)

- 1:25-1:45 *Social Contributions to Female Suicides in China and Nepal.* Ariel Marion '14 (Sponsor: Professor Ellen Foley)

Steinbrecher Fellowship Program (2:00-3:30pm)

Program Director: Professor Sharon Krefetz

- 2:00-2:15 *Effects of Climate Change on Forest Regeneration After Spruce Beetle Outbreaks.* Moriah Day '15 (Sponsor: Professor Dominik Kulakowski)
- 2:15-2:30 *Identity in Flux: The Construction of Southern Identity through Press Coverage of the Emmett Till Murder and Trial.* Jennifer O'Rourke '14 (Sponsor: Professor Ousmane Power-Greene)
- 2:30-2:45 *Medicinal Chemistry: Synthesis of Hydrazine-Functionalized Lysine.* Blaine McCarthy '15 (Sponsor: Professor Charles Jakobsche)
- 2:45-3:00 *Portrayals of Activism in John Steinbeck's Non-Fiction.* Claire McDonald '14 (Sponsor: Professor James Elliott)
- 3:00-3:15 *A Healthy Smile Begins with a Child: An Examination of Oral Health in Vietnam.* Hoamy Tran '15 (Sponsor: Professor Rachel Gans-Boriskin)

Rosenblatt Conference Room (University Center-1st Floor)

Political Science Research Projects (1:30-3:00pm)

- 1:30-1:50 *Political Repercussions of Citizens United Decision*. Ryan Early '16
(Sponsor: Professor Mark Miller)
- 1:50-2:10 *Prison Reform in California: Mental Health Issues*. Kai Glick '16 (Sponsor:
Professor Mark Miller)
- 2:10-2:30 *Social Democracy and the Norwegian Parliamentary Elections of 2013*.
Matthew K. Sandler '14 (Sponsor: Professor Mark Miller)
- 2:30-2:50 *The Value of Prevention: How Four U.S. States Approach Preventive
Healthcare*. Jenny Six '14 (Sponsor: Professor Mark Miller)

Political Science (3:00-3:25pm)

- 3:00-3:25 *Argentine Worker Self-Management and Anarcho-Syndicalism: A
Comparative Analysis*. Bryan Diehl '14 (Sponsor: Professor Paul Posner)

Persky Conference Room (University Center-2nd Floor [behind mailroom])

English Capstone (ENG 290) Panels (12:00-2:15)

Sponsor: Professor Betsy Huang

- 12:00-1:00 Panel 1: *Consuming Pop Culture Critically: On Harry Potter, Chick Lit, 30
Rock and Hipsters*. Jessica Davis '14, Victoria Patlajan '14, Maraed
Dickinson '14 & Hallie Hayden '14
- 1:00-1:30 Panel 2: *A Queer by Any Other Name: Excerpts from Long and Short
Fiction*. Charlotte Turner '14 & Michael Steigman '14
- 1:30-2:15 Panel 3: *Femininity, Masculinity, and the Ethics of Voice*. Shalyn
Hopley '14, Lauren Cyr '14 & Jonah Beukman '14

Fuller Conference Room (Goddard Library-4th Floor)

Mathematics and Computer Science (12:00-1:10pm)

- 12:00-12:15 ***Visual Applications of Group Theory.*** Olivia Krommes '14 (Sponsors: Professors Lawrence Morris and Li Han)
- 12:15-12:30 ***Axiomatic Origami.*** Henry Myers '14 (Sponsor: Professor Lawrence Morris)
- 12:30-12:50 ***An analogue of a Platonic solid in 4 dimensions, and its symmetry group.*** Evelyn Nitch-Griffin '14 (Sponsor: Professor Lawrence Morris)
- 12:50-1:10 ***Application of Multidimensional Scaling.*** Hoang Duong Trong '14 (Sponsor: Professor Lawrence Morris)

Computer Science Honors Program (1:15-2:15pm)

- 1:15-1:45 ***Control Yourself - Kinect Game.*** Elena Zhizhimontova '14 (Sponsor: Professor John Magee)
- 1:45-2:15 ***Nerf Dart Gun.*** Zachary Herman '14 (Sponsor: Professor John Magee)

Computer Science (2:15-3:15pm)

- 2:15-2:45 ***Easy Tools: An Android Application for Science Enthusiasts.*** Shreya Biswas '14, Viktoria Grindle '15 & Tina Shah '14 (Sponsor: Professor John Magee)
- 2:45-3:15 ***Cougar Run.*** Alex Williams '15, Rehan Rasool '15, Brandon Guo '15, Nikoloz Gelashvili '15 & Hoang Nguyen '15 (Sponsor: Professor John Magee)

POSTER SESSIONS

Abrams Gallery (University Center-1st floor)

Visual and Performing Arts/Studio Art

1. *Painting: Beyond the Surface*. Kristian Asfoura '15, Andrew Doig '14, Lucas Eimert '14, Stefanie Gough '14, Courtney Johnson '15, Laina Pauker '14 & Breanna Tucker '15 (Sponsor: Professor Elli Crocker)

Tilton Hall (University Center-2nd floor)

Biochemistry and Molecular Biology

1. *The Correlation Between Tobacco Usage and Symptoms of Anxiety and Depression*. Lena Cedrone '15 (in collaboration with Dr. Boudreaux, UMass Medical Center; Sponsor: Professor David Thurlow)
2. *Covalent Modification of Arginine Residues in Lysyl Oxidase and Cytochrome C*. Elizabeth Severson '15 (Sponsor: Professor Fred Greenaway)
3. *Inhibition of the α -Helix to β -Sheet Conversion in the Amyloid- β Protein by the Use of Small Molecules*. Rhady Sorm '14 (Sponsor: Professor Noel Lazo)
4. *Piperine inhibits the self-assembly of the Arctic amyloid- β protein*. Johanna Reyes '14 & Michael Edwards '14 (in collaboration with Valerie Ivancic, graduate student; Sponsor: Professor Noel Lazo)
5. *Cloning of glutathione reductase genes from Xanthobacter autotrophicus PY2*. Alexandra Niclou '15 (in collaboration with Yingjiao Wang, graduate student; Sponsor: Professor Heather Wiatrowski)

Biology

6. *Does Stretching Facilitate Athletic Performance?* Qui Trinh '15 (Sponsor: Professor David Thurlow)
7. *Nicotine Impact on Brain Activation in an Animal Model of ADHD*. Matthew Thompson '14 (Sponsor: Professor Neva Meyer)
8. *Phylogenetic Analysis of Septic Leach Field*. Alexander Vickers '14 (Sponsor: Professor Heather Wiatrowski)
9. *Antibody Profile to Influenza Virus in the ED Patients and Antibody Treatment Patterns for Elderly Patients in the ED Department*. Rezwana Hoque '14 (in collaboration with Dr. John P. Haran, UMass Medical Center; Sponsor: Professor David Thurlow)
10. *Dehydration Rates of Green Frogs (Lithobates clamitans)*. Hannah Diebboll '14 (Sponsor: Professor Philip Bergmann)

continued

11. *Relationship between Size of Sea Anemone Hosts and Occupancy of Periclimenes Shrimp Symbionts in Bocas del Toro, Panama.* Katelyn Richer '15 (Sponsor: Professor Susan Foster)
12. *Long-term natural variation in egg size and clutch size in divergent populations of Alaskan threespine stickleback (Gasterosteus aculeatus).* Briana Cooney '15, Sarah Saltzman '15 & Marian Crockett '16 (Sponsor: Professor John Baker)
13. *Schooling Tendency in the Presence of a Predator in Threespine Stickleback (Gasterosteus aculeatus).* Jenna Kosmo '15 (in collaboration with Melissa Graham, graduate student; Sponsor: Professor John Baker)
14. *Effects of Substrate Particle Diameter on Non-Steady State Locomotion of Steppe Runner (Eremias arguta).* Kyle Pettinelli '14 (Sponsor: Professor Philip Bergmann)
15. *Post Transcriptional Regulation and Growth Kinetics in the Marine Diatom Thalassiosira pseudonana.* Joshua Buggé '14 (Sponsor: Professor Deb Robertson)
16. *Puf expression in the marine diatom Thalassiosira pseudonana in response to nitrogen availability.* Rachel Forman-Rubinsky '14 & Emily Stone '16 (in collaboration with Minoli Perera, graduate student, and Joshua Buggé (PLA); Sponsor: Professor Deb Robertson)
17. *Analysis of mRNA half-lives encoding nitrogen-assimilating enzymes in Thalassiosira pseudonana.* Vanessa Adam '15, Kendall Lunn '14, Gaby Jijon Nermalceff '14 & Hannah Reich '15 (in collaboration with Minoli Perera, graduate student, and Joshua Buggé (PLA); Sponsor: Professor Deb Robertson)
18. *Post-transcriptional regulation of mRNA encoding nitrogen assimilating enzymes in the marine diatom Thalassiosira pseudonana.* Rebecca Littlefield '15, Kyle Pettinelli '14 & Stephanie Wong '14 (in collaboration with Minoli Perera, graduate student, and Joshua Buggé (PLA); Sponsor: Professor Deb Robertson)
19. *Characterization of the circadian RNA-binding proteins, Chlamy1 and Chlamy3, in diatoms.* Nicole Dube '15, Chris Dibble '16 & Samantha Shum '14 (in collaboration with Minoli Perera, graduate student, and Joshua Buggé (PLA); Sponsor: Professor Deb Robertson)
20. *Determination of growth rates and carrying capacity in marine diatoms: Impacts of silicate limitation.* Rory Jones '14 & Levi Seeley '16 (in collaboration with Minoli Perera, graduate student, and Joshua Buggé (PLA); Sponsor: Professor Deb Robertson)
21. *Cloning Xanthobacter autitrophicus Py2 mer operon.* Erin Thayer '14 (in collaboration with Colin Rutner '13, graduate student; Sponsor: Professor Heather Wiatrowski)

Chemistry

22. *Synthesis of Hydrazine Functionalized Lysine for Solid-Phase Peptide Synthesis.* Blaine McCarthy '15 & Nick MacArthur '16 (Sponsor: Professor Charles Jakobsche)
23. *Synthesis, Structure and Magnetic Behavior of Bis[(5-Trifluoromethyl)pyridine] Copper Dichloride.* Ruth Louise Forman '14 (Sponsor: Professor Mark Turnbull)

Education

24. *Qualitative analysis of a subject's interpersonal social structure.* Lydia Berry '15 (Sponsor: Professor Jonathan Derry)

Environmental Science

25. *Morphological Characterization of Threespine Stickleback in Newfoundland, Canada.* Jason Moreira '14 (Sponsor: Professor Susan Foster)—LEEP Project
26. *The ecology of the freshwater pearl mussel (*Margaritifera margaritifera*) in the East Branch of the Swift River.* Hannah Reich '15 (Sponsor: Professor John Baker)—LEEP Project
27. *Seasonal differences in coral bleaching on South Caicos coral reefs.* Hannah Reich '15 (Sponsor: Professor John Baker)
28. *Macro-invertebrate community structure in streams affected by conventional and organic cranberry cultivation.* Nicholas Pagan '15 (Sponsor: Professor John Baker)
29. *Macroinvertebrate Distribution in Different Land Cover Types in the East Branch Swift River, Petersham, MA.* Maria Gabriela Jijon Nermalceff '14 (Sponsor: Professor John Baker)—LEEP Project

Geography

30. *A Glacier Inventory for North Asia.* Lucas Earl '14 (Sponsor: Alex Gardner)
31. *His Master's Voice: How the Internet is Changing the Modern Music Industry.* Patrick Donnelly '14 (Sponsor: Professor Yuko Aoyama)
32. *Participation of Civil Society in the formation of Boston's Rose Kennedy Greenway.* Kayla Patel '14 (Sponsor: Professor James McCarthy)
33. *Characterizing socio-demographic and biophysical drivers of land development through periods of economic bubble and bust: Using Landsat and ancillary data.* Sean Cunningham '14 (Sponsor: Professor John Rogan)
34. *Socio-Demographic Patterns of Tree Cover and Loss in Worcester, MA.* Cody Litchfield '14 (Human-Environment Regional Observatory (HERO) program; Sponsor: Professor Deborah Martin)

continued

35. *The Social Amplification of Risk Framework: Application to the Asian Longhorned Beetle Infestation in Worcester, MA.* Joseph Hersh '15 (Human-Environment Regional Observatory (HERO) program; Sponsors: Professors Deborah Martin & John Rogan)
36. *Characterizing Changes in Urban Forest Ecosystem Services Due to Invasive Insect Eradication in Worcester, Massachusetts.* Gaia Khairina '15 (in collaboration with Matthew Manley, graduate student; Sponsors: Professors John Rogan, Deborah Martin & Verna DeLauer)
37. *Monitoring land surface temperature variability across an urban-forest gradient in Worcester, Massachusetts using in-situ and multi-platform satellite data.* Michelle Andrews '14 (Sponsors: Professors John Rogan, Deborah Martin & Verna DeLauer)

Global Environmental Studies

38. *REC YouthGROW – Impacts on Youth and Community Development.* Mikaela Monous '15 (Sponsor: Professor Dianne Rocheleau)
39. *Upgrading the Climate Action Plan.* Sharon Bort '14 (Sponsor: Jenny Isler, Campus Sustainability Coordinator)
40. *Clark University Green Office Audit.* Chi Le '15 (Sponsor: Jenny Isler, Campus Sustainability Coordinator)
41. *Fascination Turns to Exploitation: The Study of Human Domination Over Elephants.* Gabrielle Kent '15 (Sponsor: Professor Jody Emel)

Interdisciplinary

42. *Worcester Youth Violence & Gang Prevention Strategy.* Charise Canales '14, Maura Flanagan '14, Catherine Lenis '14, Abigail Petkov '14 & Faye Terry '14 (Sponsor: Professor Laurie Ross)
43. *Healthy Markets: Fight Against Food Disparity in Worcester.* Sarah Dys '15 (in collaboration with the Worcester Department of Public Health; Sponsor: Professor Ellen Foley)
44. *Donor Retention Plan for U.S. Based Non Profit Organization.* Seble Alemu '14 (Sponsor: LEEP Center)—LEEP Project

International Development and Social Change

45. *Realities and Representations: HIV/AIDS and Food Insecurity.* Olivia Rogine '14 (Sponsor: Professor Ken MacLean)
46. *The Role of Culture in Dominican Students Educational Motivation Levels.* Emily Neubig '14 (Sponsor: Professor Ken MacLean)

continued

47. *Access to and Utilization of Primary Healthcare Services by the Hispanic/Latino and African Immigrant Communities in Worcester, MA.* Sophie Hagberg '14 (Sponsor: Professor Ken MacLean)
48. *Refugee Job Development Research for HIAS Pennsylvania.* Anneke Kat '14 (Sponsor: Professor Anita Fabos)—LEEP Project

Philosophy

49. *Village of Skokie v. National Socialist Party of America (1978).* Alex Hoyt '14 (Sponsor: Professor Judith DeCew)
50. *Understanding Bowers v. Hardwick.* Ceylan Oymak '14 (Sponsor: Professor Judith DeCew)

Psychology

51. *Collective Construction of the "Party."* Greg Minikes '14 (Sponsor: Professor Jaan Valsiner)
52. *Do children trust for the wrong reasons?* Lyle Cadorette '14, James Herrmann '14, Kira Foley '14 & Lucia Pantuosco '14 (Sponsor: Professor Igor Bascandziev)
53. *Understanding cultural worldliness: Utilizing university students' responses for scale construction.* Ilana Weiss '14 (Sponsor: Professor Nicola Curtin)
54. *Butterfly Effect.* Delight Gavor '16 (Sponsor: Professor Seana Moran)
55. *Examining Patient-Provider Agreement in Inpatient Mental Health Facilities.* Matthew Thompson '14 (in collaboration with Kristen Keefe, graduate student; Sponsor: Professor Esteban Cardemil)
56. *Identifying the Contextual Elements that Foster Creativity.* Curtis Meyer '15 (Sponsor: Professor Jaan Valsiner)
57. *Perceptions of Globalization and Thai Values Among Adults in Rural and Urban Settings.* Zora Haque '14 & Amna Adamjee '15 (in collaboration with Jessica McKenzie, graduate student; Sponsor: Professor Lene Jensen)
58. *Comparing Urban and Rural Thai Adolescents: Exploring Perspectives on Globalization.* Natalie Spivak '15 & Aksheya Sridhar '14 (in collaboration with Jessica McKenzie, graduate student; Sponsor: Professor Lene Jensen)
59. *Early literacy achievements in linguistically diverse kindergarten classrooms.* Hayley Cunningham '14, Sarah Schnur '14, Rebecca Bernstein '14 & Macy Lam '15 (Sponsor: Professor Elena Zaretsky)
60. *Elicited vs. recalled narrative skills in kindergartners from diverse linguistic backgrounds.* Peter Murphy '14, Keke Kaikhosrovshvili '16, Jasmine Galloway '15 & Emily Koepke '14 (Sponsor: Professor Elena Zaretsky)
61. *How Can College Help Students Commit to a Purpose?* Vladi Highland '16, Tom Mlodozieniec '15 & Yon Bassal '14 (Sponsor: Professor Seana Moran)

continued

62. *The Moral Considerations of Holocaust Resistance Fighters*. Esther Cohn '14 (in collaboration with Maggie Campbell, graduate student; Sponsor: Professor Johanna Ray Vollhardt)
63. *Implications of College Peer Culture on Achievement Motivation*. Zora Haque '14 (Sponsor: Professor Jaan Valsiner)
64. *Exploring Perceptions of Protests against the Government in Urban and Rural Settings in Thailand*. Ceylan Oymak '14 (in collaboration with Jessica McKenzie, graduate student; Sponsor: Professor Lene Jensen)
65. *Studying Collective Action in the Gezi Movement Context*. Ceylan Oymak '14 (Sponsor: Professor Johanna Ray Vollhardt)
66. *Interdependence purpose development: The influence of collectivistic values*. Kellee Kosiorek '14, Rose Koerner '14 & Erica Dupra '14 (Sponsor: Professor Seana Moran)
67. *No Pain, No Gain*. Amanda Farber '16, Elizabeth Barker '15 & Jonathan Shim '14 (Sponsor: Seana Moran)
68. *Why Is Peer Support Helpful in the Quest for Purpose?* Lucia Pantuosco '14, Jai Sung Lee '14 & Jaclyn Murano '14 (Sponsor: Professor Seana Moran)
69. *I Am Human Too: Exploring Emotionality in Single African American Mothers*. Naysha Shahid '15 (Sponsor: Professor Laura McKee)
70. *Acculturation as moderating the effect of life stress on depression among Latino Men*. Jennifer Tejada '14 (Sponsor: Professor Esteban Cardemil)
71. *PictureThis: Analyzing Happiness Correlates Through Positive Picture Taking*. Samantha Bishop '14 (Sponsor: Professor Laura McKee)
72. *Child Gender Preferences Among Gay Couples*. Tanner Bryan '14 (in collaboration with April Moyer, graduate student; Sponsor: Professor Abbie Goldberg)

Urban Development and Social Change

73. *The Academic Achievement Gap: Latino Literacy in the U.S.* Cecelia Spencer '14 (Sponsor: Professor John Ameer)—LEEP Project

Visual and Performing Arts/Studio Art

- 74-96. *Designers on Design: Research into Graphic Design History* (courses: ARTS125, Graphic Design Projects; ARTS254, Graphic Design Studio). Mae Beerman '14, Lydia Berry '15, Nina Borland '14, Elizabeth Brooks '14, Keegan Callahan '15, Ria Citrin '15, Jeremy Colson '16, Sofia Dobner-Pereira '15, Rose Gallogly '15, Hallie St. Germaine '16, Andrew Gorham '16, Meghan Hawkins '16, Ashley Holt '15, Granite Huang '14, Natasha Isokangas '14, Olivia Lefley (visiting student), Sara Lieto '14, Tracy Oakley '15, Nga Pham '15, Phuong Khanh Phan '16, Elizabeth Scoles '15, Mary Kimberly Villamor '15 & Ailey Wilder '14 (sponsors: Professors Jane Androski & Emily Rye)

Academic Commons (Goddard Library-1st Floor)

Communication and Culture

1. *Approximating centralization and hop density in Internet traffic with traceroute.* Andrew Gardner '14 (Sponsor: Professor Cynthia Conti)
2. *Modern Kazoku: an exploration of family values portrayed in Japanese television dramas.* Abigail Stone '14 (Sponsor: Professor Betsy Huang)

Comparative Literature

3. *Lost and Found: A psychoanalytic perspective on the TV series "Lost" and its relationship to psychological development.* Ilana Weiss '14 (Sponsor: Professor Robert Tobin)

Computational Science

4. *Modeling Magnetized Plasma.* Maame Anan-Ankomah '17, Alicia Dagle '17, Devon Fontaine '17, Matthew Larkin '17, Courtney Pharr '17, Lyle Pierson Stachecki '17, Amanda Schramm '17, Thomas Smith '17, Kaitlyn Stuck '15, Samantha Sutton '17, Zhuoming Tan '16, & Dale Watt '17 (Sponsor: Professor Natalia Sternberg)

Computer Science

5. *Cougar Run.* Alex Williams '15, Rehan Rasool '15, Brandon Guo '15, Nikoloz Gelashvili '15 & Hoang Nguyen '15 (Sponsor: Professor John Magee)
6. *Control Yourself - Kinect Game.* Elena Zhizhimontova '14 & Nicholas Iwamoto '15 (Sponsor: Professor John Magee)
7. *Easy Tools: An Android Application for Science Enthusiasts.* Shreya Biswas '14, Viktoria Grindle '15 & Tina Shah '14 (Sponsor: Professor John Magee)
8. *Software for Solar Sail Design Optimization.* Shaina Sanders '14 (Sponsor: Professor John Magee)

Economics

9. *Restrictive Zoning, Jurisdictional Fragmentation, and the Implications for the Inner-City.* James Caneff '14 (Sponsor: Professor John Brown)

Economics Honors Program

10. *The Political Economy of Taxpayer Subsidies for the Redevelopment of Lambeau Field in Green Bay, Wisconsin.* Yonathan Bassal '14 (Sponsor: Professor John Brown)
11. *The Overall Impact of the European Union on its Members: An Empirical Study of Why the Greek Economy Failed.* Ashna S. Choudhury '14 (Sponsor: Professor Dessislava Slavtcheva)
12. *Headwinds to Economic Growth.* Andrew R. Doolittle '14 (Sponsor: Professor John Brown)
13. *A Predictive Model for Financial Tick Data.* Hoang Duong Trong '14 (Sponsor: Professor Dessislava Slavtcheva)
14. *Effectiveness of Inflation Rate Targeting on Macroeconomic Growth in Developed and Developing Economies.* Robert J. Gammell '14 (Sponsor: Professor Dessislava Slavtcheva)
15. *Impact of Education on Inequality in Mexico.* Leah J. Guliasi '14 (Sponsor: Professor John Brown)
16. *Valuing Improvements of Water-Based Recreation.* Joshua M. Kent '14 (Sponsor: Professor Rob Johnson)
17. *Foreign Direct Investment and Economic Growth in China: A Provincial-Level Analysis.* Wanmiao Li '14 (Sponsor: Professor Roxane Anderton)
18. *Role of Manufacturing Concentration in Economic Recovery: A Survival Model Analysis.* Ian M. Love '14 (Sponsor: Professor John Brown)
19. *Impact of Chinese Foreign Direct Investment on Africa's Economic Growth.* Mary Ivy Mbayah '14 (Sponsor: Professor Marc Rockmore)
20. *Alternative Models of Stock Prices.* Andrew J. Musler '14 (Sponsor: Professor Dessislava Slavtcheva)
21. *Insurers' Ability to Assess Catastrophic Risk.* Saul A. Ramirez '14 (Sponsor: Professor Wayne Gray)
22. *Shall We Spend? A Cross-Country Analysis on the Impact of Government Debt on Economic Growth.* Oliver Samples '14 (Sponsor: Professor Dessislava Slavtcheva)
23. *Mega-Events: Investment Opportunities or Precursors to Downturns?* Luke Hyma Scanlan '14 (Sponsor: Professor John Brown)
24. *The Impact of Unemployment Benefits on Duration of Unemployment.* Qianhan Semi Sheng '14 (Sponsor: Professor Wayne Gray)
25. *Behind the Scenes of Monetary Policy: an International Comparison.* Kent Vidar Helle Vorland '14 (Sponsor: Professor Dessislava Slavtcheva)
26. *Meaningful at the Margins: Regional Economic Performance and Pro-Independence Voting.* Rian L. G. Watt '14 (Sponsor: Professor Wayne Gray)
27. *Code-Sharing in the Domestic Airline Industry.* Jingjing Yang '14 (Sponsor: Professor Sang Hoo Bae)

English

28. 2014 Prentiss Cheney Hoyt Poetry Contest (Sponsor: Professor Jay Elliott)
1st Place: Nick Porcella '15 for "Less Than a Year"
2nd Place: Sharon Broadway '14 for "The Elephant Graveyard"
3rd Place: Ava Molnar '14 for "Father Moon You Have Made Me"
29. 2014 Betty '79 & Stanley Sultan Short Story Contest (Sponsor: Professor Jay Elliott)
1st Place: Emma Pierson '14 for "Lost and Found"
2nd Place: Laura Barker '17 for "Seven Deadly"
3rd Place: Sarah Wells '17 for "A Merciful Fog"
30. 2014 Loring Holmes & Ruth Dodd Drama Contest (Sponsor: Professor Jay Elliott)
1st Place: Lillian Schley '15 for "Don't Leave Me Hanging"
2nd Place: Jordan Formichelli '14 for "Sanity (Love Songs From Her Asylum)"
3rd Place: Ava Molnar '14 for "Seedlings"
31. *Conversations Across the Atlantic: An exploration of communication through American poetry.* Apollonia Roman '14 (Sponsor: Professor Betsy Huang)
32. *Making Meaning and Magic through Abecedarian Poems.* Alexandra Katechis '14 (Sponsor: Professor Betsy Huang)
33. *MixLit: A Digital Exhibit of Mixed Race Literary and Screen Characters.* Emma Baker '14, Shalyn Hopley '14, Charlotte Turner '14, Crystal Carpenter '14, Apollonia Roman '14, Hallie Hayden '14, Jonah Beukman '14, Peter Murphy '14, Adam Kelley '14, James Tyler '14, Claire Tierney '14, Maraed Dickinson '14, Andrew Doig '14, Erin O'Kelly '14, Elisabeth Valinski '14, Claire McDonald '14, Jessica Davis '14, David Lwamugira '14, Lauren Cyr '14, Kathryn Gummoie '14, Isaac Goodman-Boyd '14, Michael Steigman '14, Ilana Yoneshige '14, Victoria Patlajan '14 & Alexandra Katechis '14 (Sponsor: Professor Betsy Huang)

Management

34. *Model Portfolio Returns and Shortfalls.* Dulara de Alwis '14 (Sponsor: Professor Inshik Seol)

Mathematics and Computer Science

35. *Geometry following Euler, and Symmetries.* Logan Bishop-Van Horn '17, Tyler Whitesell '17, Faith Hollander '17, Edmund McCluskey '17, Matthew Rosiensi '17 (Sponsor: Professor Gideon Maschler)

Physics

36. *Fluctuation-Induced Casimir Forces in Granular Fields*. Ayush Joshi '16 (Sponsor: Professor Arshad Kudrolli)
37. *Oscillatory Dynamics in Bio-Molecular Networks*. Brian York '14 (in collaboration with Zulfikar Ali, graduate student; Sponsor: Professor Ranjan Mukhopadhyay)
38. *The Synthesis and Ferromagnetic Properties of Crystallized 3,5 DiBromoPyridine*. Daryl Tong '15 (Sponsor: Professor Chris Landee)
39. *Modeling Crystal Lattices and Charge Density Waves with Mathcad*. Aaron Kraft '16 (Sponsor: Professor Michael Boyer)
40. *Onset of Erosion in Laminar Flow*. David Scheff '15 (Sponsor: Professor Arshad Kudrolli)
41. *Scanning Tunneling Microscopy Studies of the Topological Insulator $Bi_2Se_3As_x$* . David Melul Fresco '14 (Sponsor: Professor Michael Boyer)
42. *Synthesis of Compounds of Pyrazine dioxide (pzdo) with $Cu(ClO_4)_2$ and $Cu(BF_4)_2$* . Wilhelmina Zwennes '15 (Sponsor: Professor Christopher Landee)
43. *Phase relation for biochemical oscillators*. Rory Jones '14 (Sponsor: Professor Ranjan Mukhopadhyay)
44. *Magnetic Properties of Crystalline Solids*. Thomas Snyder '15 (Sponsor: Professor Christopher Landee)
45. *Analysis of the Anisotropic Critical Fields in Superconductors*. Steven Butler '14 (Sponsor: Professor Charles Agosta)
46. *Investigating Structural Irregularities in the Blue Bronze $Rb_{0.3}MoO_3$* . Leo Bayless-Hall '14 (Sponsor: Professor Michael Boyer)
47. *Scanning Tunneling Microscopy Studies of the Purple Bronze $Li_{0.9}Mo_6O_{17}$* . Tyler Flanagan '14 (Sponsor: Professor Michael Boyer)
48. *Synthesis of $Cu(3,5-diBrpy)_2Cl_2$* . Yasmin Fuseini-Codjoe '15 (Sponsor: Professor Christopher Landee)
49. *Flow through porous media*. Xinyi Shen '14 (Sponsor: Professor Arshad Kudrolli)

Political Science

50. *Generational Politics: An Examination of Political Perspectives Amongst First and Second Generation Vietnamese Americans*. Mai Pham '14 (Sponsor: Professor Kristen Williams)

Sociology

51. *HIV+ Families: Changing Family Dynamics in the Face of an Epidemic*. Barbie Gimbel '14 (Sponsor: Professor Rosalie Torres Stone)

Women's and Gender Studies

52. *Gubernatorial Candidates in New Mexico and Arizona During the 2010 Election Cycle*. Brittany Klug '16 (Sponsor: Professor Kristen Williams)

OTHER EVENTS AND DISPLAYS

Traina Center for the Arts

Visual & Performing Arts

Studio Art Senior Thesis Exhibition (sponsor: Professor Toby Sisson)
Schiltkamp Gallery, 92 Downing Street

MAKE.DO.

April 23 through May 18, 2014

Opening Reception: 4:30-6:30pm Today, April 23, 2014

This annual exhibition is a group show celebrating a diverse selection of art by graduating Studio Art majors. This year the students are: **Joanne Barrett '14, Nina Borland '14, Elizabeth Brooks '14, Granite Huang '14, Heather Parlee '14, Mark Alvar Peck '14, Theresa Reish '14, Rebecca Rood Goldman '14, Ananya Sikand '14, Michael Smith '14 & Catherine Walker '14**

Academic Spree Day 2014

Sponsored by the Office of the Dean of the College

Faculty Coordinator: Professor James V. Córdova, Department of Psychology

Staff Coordinators: Rebecca Bergmann and Karen Wilber, Department of Psychology