POSTERS continued

41. Pura Vida: The American Tattoo
   Walter Beckwith

42. Social Skill Development in Young Children with Autism
   Michelle Gibbons, Hannah Beal, Kelsey Fahey, Rachel Labbe

43. The Brighter Side of Co-Rumination: Reduced Substance-Use Risk Through Enhanced Perceived Social Support
   Uriah Hedrick

44. The Alcohol Deprivation Effect in Selectively-Bred Binge-Drinking Mice
   Peter Brooks

45. The Correlation between GJB2 Gene Mutations and DFNB1
   Lindsay Barton, Jennifer Dowe, Alexandria Fitzgerald, Danielle Steele

46. The Effect of Dysphagia Treatments on Speech Production
   Jamy Harvey, Keegan Hovey, Callie Larson, Casey Williams

47. High Risk Infants: What Behaviors are Displayed by the Younger Siblings of Children with an Autism Spectrum Disorder?
   Michelle Gibbons, Hannah Beal, Katrina Campos, Katelyn Brown

48. Strategies for Spatially Distributing Pesticides: Populations on Landscapes with Dynamic Heterogeneity
   Jeffery Merckens

49. Music Enjoyability in Post-Lingual Cochlear Implant Users
   Kimberly Bilodeau, Amanda Maioriello, Bethany Simon, Jenna Beaulieu

50. The Effects of Feelings and Awareness on Treatment in Children who Stutter
   Amanda Gerrish, Kristin Burch, Julie Sirois, Shannon Criscolo

51. The Social Story Method and its Success with Preschool Children with Autism Spectrum Disorder
   Caitlin Dutton, Brianne Calabrese, Megan Burby

52. Speech Production of Children with and without Compensatory Articulation Disorder in Relation to Cleft Lip/Palate
   Maria Ghobadi, Celine MacLean, Brittany Scirica, Heather Delano

53. Wavelet Base Technique in Processing ERP
   Aaron Tanenbaum

54. A Mathematical Model of Populations on Landscapes with Heterogeneous Habitat Quality
   Timothy Buchak

55. Environmental Factors Linked to Interannual Variability in Shellfish Toxicity in the Gulf of Maine
   Madeline Peek

56. The Affects of Ultrasonic Stimuli on the Schooling Behavior of American Shad (Alosa sapidissima)
   Sebastian Velez

57. Effects of Nutrient Availability on Growth and Chain Length of Diatoms
   Samantha Bond

58. Investigating Glutathione: Metal-Sulfur Interactions
   John Badger, Chelsea Boyd, Carly Matthews

THANK YOU SPONSORS: Office of the President  ~  Office of the Vice President for Research  ~  Honors College
~  College of Engineering  ~  College of Liberal Arts and Sciences  ~  College of Natural Sciences, Forestry, and Agriculture  ~  Information Technologies  ~  Department of Sociology  ~  The Graduate Student Government

SHOWCASE COMMITTEE: Sharon Ashworth  ~  Steven Barkan  ~  Nancy Hall  ~  Lee Karp Boss  ~  Kristin Sobolik
Program

Wells Conference Center

8:00-9:00 Registration/Social Hour (Rooms 1 & 3)
Continental Breakfast

9:00-9:05 Welcome (Room 3)
Opening Remarks: Provost Susan Hunter

9:15-10:00 Keynote Address (Room 3)
Tuajuanda Jordan, Director
Science Education Alliance
Howard Hughes Medical Institute
"The Sky’s the Limit: Will You Be Soaring with the Eagles or Hanging Out with the Turkeys?"

10:00-12:00 Posters and Exhibits Available for Viewing Throughout the Day (Room 1)

10:00-12:15 Oral Presentations & Performances (Room 3)

1:00-3:30 Posters and Exhibits (Room 1)

1:00-3:30 Oral Presentations & Performances (Room 3)

3:30 Closing Remarks: CUGR Director, Nancy Hall
(Room 3)
Awards/Gifts Presentation

Light Refreshments

Tuajuanda Jordan joined HHMI in 2006 as senior program officer for science education. She was promoted to director of the Science Education Alliance in 2008, a role she is well suited for and to which she brings lots of hands-on experience.

Jordan earned her undergraduate degree in chemistry at Fisk University in Nashville. After earning her Ph.D. in biochemistry at Purdue University, she became a faculty member in the Department of Chemistry at Xavier University of Louisiana in New Orleans. Before moving into administration, Jordan led the effort to update the biochemistry curriculum, which included required courses in genomics and proteomics. In 2005, Jordan was named associate vice president for academic affairs at Xavier.

Jordan has devoted much of her professional career mentoring students and working with programs designed to retain underrepresented minorities in the STEM (Science, Technology, Engineering, Mathematics) disciplines. Additionally, she is a member of the NIH MORE division’s Minority Access to Research Careers subcommittee, an ad hoc member of the National Human Genome Research Initiative’s Minority Action Plan review panel, and has served as the chair of NIH’s Minority Biomedical Research Support program and on numerous NIH and NSF scientific review panels.

Exhibits

Title | Presenters
--- | ---
A New Paradigm for Non-Linear Dylan Watt, Ian McClure, Zev Eisenberg
Storytelling on Multi-Touch Devices | Alice Kelley
The Maine Plan Documentary Project | Peter Drown, Rachel Joyce
Technology and Education: The Integration of Technology in the Classroom | John Mondor
Kinesthetic Computing | Jonathan Simpson, Zev Eisenberg
A Lesson in Time | Sean Campbell, Robert Hussey
IPad Eventviewer Prototype | Joshua Komusin, Joshua Belanger
Design of a ServiceBot for a Cafeteria Setting | Dan Wheeler, Christopher Freeman, Terrence O’Brien, Corey Vincent, Jerod Hayes
<table>
<thead>
<tr>
<th>Time</th>
<th>AM Presentation</th>
<th>PM Presentation</th>
</tr>
</thead>
</table>
| 10:00-10:15 | Spectral Reflectance as a Method to Identify the Invasive Tunicate *Didemnum vexillum*  
*Thomas Leeuw* (Marine Sciences) | 1:00-1:15  
A Novel Computer Aided Diagnostic Tool to Detect and Characterize Mammographic Breast Lesions  
*Aaron Tanenbaum* (Mathematics & Statistics) |
| 10:15-10:30 | Serum Cholesterol Changes and Mild Cognitive Impairment: The Maine-Syracuse Study  
*Amy Luce* (Psychology) | 1:15-1:30  
The Existence and Creation of Intergenerational Estate Transfer Plan Among Family Forest Owners in Maine  
*Eli Shank* (Forestry) |
| 10:30-10:45 | An Exploration of *Elysia Chlorotica*  
*Erin Keim* (Molecular & Biomedical Sciences) | 1:30-1:45  
Establishing Zebrafish as a Model Organism for *Pseudomonas aeruginosa* Biofilm Formation  
*Aaron Perreault* (Molecular & Biomedical Sciences) |
| 10:45-11:00 | A Study of The Accessibility of Public Information on Town Websites  
*Thomas Kwiatek* (Journalism, Political Science) | 1:45-2:00  
Does Less Bait Mean Fewer Lobsters?  
*Maddelyn Harden* (Marine Sciences) |
| 11:00-11:15 | Characterization of Snakehead Rhabdovirus Antiviral Evasion Mechanism  
*Francis Le* (Molecular & Biomedical Sciences) | 2:00-2:15  
Development of an Actin Hydrogel Substrate for Fluorescence Correlation Spectroscopy of FGF Protein Transfer Across a Model Membrane  
*Ryan Dawes* (Biology) |
| 11:15-11:30 | Teaching with Analogies in the Chemistry Laboratory  
*Carly Matthews* (Chemistry) | 2:15-2:30  
Expression of Algal Nuclear Genes in the Sea Slug *Elysia chlorotic*  
*Kara Sarver* (Molecular & Biomedical Sciences) |
| 11:30-11:45 | Home Range, Habitat Selection and Activity Budgets of Vasectomized African Elephants (*Loxodonat africana*), in the Pongola Game Reserve, South Africa  
*Katie Wonch* (Wildlife Ecology) | 2:30-2:45  
Simulations of Spatial Ecological and Epidemiological Processes for the iPhone  
*Peter Bilodeau* (Computer Science) |
| 11:45-12:00 | Fashion As A Form Of Embodiment  
*Kaylie Reese* (Philosophy) | 2:45-3:00  
Cooperative Research in New England: Perceptions of Goals, Process and Success  
*Kat Brown* (Marine Sciences) |
| 12:00-12:15 | Emily Dickinson in Contemporary Song  
*Jennifer Chaloulit* (Music) | 3:00-3:15  
Exploring the Role of NP4 *Sulfurospirillum* in the Mobilization and Speciation of Arsenic in Groundwater  
*Alec Sturrock* (Civil & Environmental Engineering) |
|          |                                                                                   | 3:15-3:30  
Plastid Establishment in the Mollusc *Elysia chlorotica*  
*Geoff Davis* (Molecular & Biomedical Sciences) |
Board Number, Title and Author

1. From Promise to Policy
   Ross Wollard

2. Grants As Fuel for Research: Applied Research as Central to Grant Writing
   Sarah Skoniecki

3. Policy Approaches to Improving Adoption Permanency: A Review of the Literature
   Natali Purinole

4. Recycling Rates and Participation in Maine
   Karen Purline

5. Nutritional Information for Marion C. Cook Elementary School Students
   Christine Boobar, Nawal Diklakki, Laura Jamo, Janelynn Lawrence, Kyla Mayo, Erica Simpson, & Jenny Turner

6. Raising Awareness of Increasing Obesity/Overweight Rates in the Town of Scarborough
   Josephine Mattson, Jessica Stoddard, Kaitlin Sullivan, Lindsay Scirica, Kimberly McGaffin, Elaina Branco, Jessica Mayo

7. Promoting Healthy Living for Brewer through Zero Sort Recycling
   Ashley Clark, Tara Hackett, Sarah Healey, Erin Miller, Raquelle Rinfret, Maura Roche, Jennifer Sudak

8. Using Archaeological Midden Deposits to Understand the Effects of 2000 Years of Native American Shellfish Harvesting on Local Populations of the American Oystercatcher
   (Haematopus palliates) Litchfield Beach area, South Carolina
   Ashley Stinson

9. Underage Drinking: Social Determinants and the Effects on Deviant Behavior
   Meghan Blackford

10. An Informational Presentation on Radon for the Town of Milford
    Naoini Freeman, Roch Lachance, Anndie Smith, Joanna Vlahakos

11. Exercise Program for Older Adults
    Shauna Sedler, Ashley Pratt, Kristen Chenard, Courtney Wright, Amanda Hooper, Amy Khiel, and Alison Swan

12. A Study of Sexual Education Competency in High School Students
    Cayleigh Montano, Kyla Bailey, Erin Iandoli, Casey Levasseur, Mandy Hampton, & Kara Kenny

13. Earthquake Interactions and Seismic Forecasting in the North Anatolian Fault Zone
    Peter Strand

    Ethan Strand

15. The Transition to Biological Childlessness: Interviews with Older Women Who Are Infertile
    Paulette Ferland

16. Augmenting Reality: AR In the Smartphone Era
    Derek Downing

17. Communication Apprehension Between Communication and Non-Communication Majors
    Sean Campbell, Whitney Tulloch, Jessica Eames, Jaime Shorter

18. Can You Hear Me Now?: Listening In on Bird Migration in the Gulf of Maine
    Christina Hassett

19. Youth Leadership, International Relations, and Community Tourism: Building a Youth-Based Volunteer Program in the Manabi and Esmeraldas provinces of Ecuador
    Maria Rocio Fernandez

    Maria Rocio Fernandez

21. Female College Students’ Perception of Body Image: Sociocultural Factors and Self-Esteem
    Rachel Henderson, Lauren Thornbrough

22. Turning Indian: A Study of Mary Jamison and the White Captive Experience during the Revolutionary War Period
    Julie Herbert

23. Characterization of the Microbial Associates of Nematodes Pathogenic to Myrmica rubra
    Jonathan Dumont

24. Parallel Evolution of Eroptic Polymorphisms in Redbreast sunfish (Lepomis auritus)
    Hannah McDaniel

25. The Multi-faceted Developmental Role of Cofilin Isoforms in Danio rerio
    Ariel Twomey, Ryan Hanusek

26. Magnitude and Seasonality of Extreme Precipitation in Maine: Recent Changes and Implications for Infrastructure Management and Design
    Bo Li

27. Enzymatic Hydrolysis of Cellulosic Fibers Derived from Wood Biomass
    Samantha Powers

28. TRAF-2 Role in Infection in Zebrafish Innate Immunity
    Bradie Manion

29. The Retention Time of Vaucheria litorea Nuclear Encoded Genes in Elysia chlorotica
    Elizabeth Fisher, Margaret Varney, Geoff Davis

30. Confocal Microscopy Procedures: Elysia chlorotica
    Christopher Doucette

31. Wolbachia in Field Populations of the Fruit Fly Rhagoletis meigenni (Diptera: Tephritidae) in the State of Maine
    Elizabeth Brochu

32. Affecting Students’ Embodiment of the Concepts of Wave Propagation on a Long Spring
    Evan Chase

33. Development of a Zebrafish Model System for Renibacterium salmoninarum Induced Kidney Disease
    Jeffrey Sun, Vanessa Beck

34. In Situ Expression of Cofilin 1-like in Danio rerio
    Caleb Swanberg

35. Characterization of Influenza Infection in Zebrafish
    Walter Mowel

36. Determining Seabed Pockmark Activity with 210 Pb Dating in Belfast Bay, ME
    Robin Arnold

37. Application of Quartz Microstructures as an Indicator of Deformation Conditions in the Norumbega Fault System, Maine
    Patrick Ryan

38. Circadian Phenotyping of Selectively-Bred High-Drinking-in-the-Dark Mice and Genetically Heterogeneous Controls
    Sonja Ascheid

39. Toxicity of Fungicides to Zebrafish: Biochemical and Physiological Effects
    Emma Smith

40. Comfort Levels When Presented With Interpersonal Stressors as a Function of Sibling Status
    Emma Atherton