FALL FEST 2011

November 2
2 - 4 p.m.
Goddard Library,
Academic Commons &
2nd Floor

Sponsored by
The Frances L. Hiatt School of Psychology &
Dean of the College

Faculty Coordinator: Professor James Córdova,
Psychology Department, x7268

Staff Coordinator: Karen Wilber, Psychology, x7538
FALL FEST

Please join us as our own Clark students showcase the fruits of their labor.

From 2:00 - 4:00 p.m. students will display their research findings through posters and electronic media (PowerPoint) presentations.

This event celebrates the research and creative work Clark Undergraduate students produce under the support and mentoring of the University’s distinguished faculty.

The presentations are found on both the 1st and 2nd floors of the Goddard Library.

Please enjoy some light refreshments found upstairs on the 2nd floor and thank you for coming!
Biochemistry and Molecular Biology
1. Selective point mutations of a chimeric protein, consisting of Arabidopsis Mitochondrial Helicase and Gene 4 product of Bacteriophage T7, to investigate its unusual enzymatic behavior. Tatenda Kadungure '12 (in collaboration with: Jamie Towle-Weicksel, graduate student; sponsor: Professor David Thurlow)

2. The Effect of Reduced KIFAP3 Expression on Transgenic SOD Mice: an ALS Mouse Model. Jenni Adams '12 (in collaboration with Matt Stigliano, graduate student; sponsors: Professor John Landers and Professor David Thurlow)

3. Inhibition of the Self-Assembly of the Arctic Form of the Amyloid β-Protein Associated with Early-Onset Alzheimer’s Disease. Brianna Anthony '12 (sponsor: Professor Noel Lazo)

4. SPATA 2 Mediation of CYLD DUB Activity in Programmed Necrosis. Sarah Schneider '12 (in collaboration with David Moquin, graduate student; sponsors: Professor David Thurlow (Clark) and Professor Francis Chan (UMass))

5. Inhibition of Amyloid Formation by Rifamycin SV: Preliminary Studies. Jennifer Gaines '12 (sponsor: Professor Noel Lazo)

6. Lysyl Oxidase Expression in Mammalian Cells. Valeria Maldonado '13 (sponsor: Professor Fred Greenaway)

7. Preliminary Study of Insulin Secondary Structure in Membranes. Lindsay Johnson '12 (sponsor: Professor Noel Lazo)

Biology
8. How soil moisture affects the physical and chemical properties of soil. Daniel Rabinowicz '12 (in collaboration with: Natasha Tchamitchian; graduate student; sponsor: Professor Philip J. Bergmann)

9. Cloning and Characterization of the NADH-Nitrate Reductase 3' -UTR. Marifel Ullola '13 (in collaboration with: Jessica Alexander, Sohini Ghoshroy and Minoli Perera, graduate students; sponsor: Professor Deborah Robertson)

10. Secondary Analysis of Genetic Interactions with Tumor Suppressor Gene: p53. Marc Benoit '12 (sponsor: Professor Denis Larochelle)

11. The Effects of Nitrate Fertilization on the Physiology of a Common Salt Marsh Plant Species, Spartina alterniflora. Katherine Friedman '12 (sponsor: Professor Deborah Robertson)

Theater Arts
56. Kennedy Center Playwrighting Intensive, July 2011. Michelle Houle '13 (sponsor: Professor Gino Dilorio)

Theodore Barth Foundation Internship Award
Thanks to the generosity of the Theodore Barth Foundation, Career Services is able to offer Clark undergraduate students a $2500 stipend (6 total awards) to support unpaid, summer internships in the nonprofit sector.

This funded internship opportunity is open to Clark undergraduate first years, sophomores and juniors who plan to complete an unpaid summer internship within a non-profit organization.

57. Jefferson Library. Elizabeth Huff '12 (sponsor: Career Services)

58. Barth Scholar: Learning from bullying, Moving for Peace. Natalia Jaramillo '12 (sponsors: Career Services and Enrique Chaux)

59. Summer Internship at The Welcome Project. Nina Eichner '12 (sponsor: Career Services)


61. Summer at the Worcester Youth Center. Daniel Pologe '12 (sponsors: Career Services & Professor Laurie Ross) - Presentation on 1st Floor.

Urban Development and Social Change
Physics - (continued)
44. Fluid mechanics of the rotating cilium. Darija Cosic ’12 & Fouad Abdulameer ’13 (sponsor: Professor Arshad Kudrolli)

45. Song Gao’s compound family: Molecular magnetism in 2D crystals. Camilo Cela Lopez ’14 (sponsor: Professor Christopher Landee)

46. Resistance Measurements Using Leads on High Temperature Superconductors. Christopher Conroy ’13 (sponsor: Professor Charles Agosta)

47. Application of Information Theory to DNA Sequence Analysis. Patrick Tucker ’12 (sponsor: Professor Ranjan Mukhopadhyay)


Political Science
49. Congress on Your Corner. Rian Watt ’14 (sponsors: Professor Mark Miller and the Theodore H. Barth Foundation)

50. Serbian Objections to European Union Integration. Nikoleta Sremac ’13 (sponsor: Professor Michael Butler)

Psychology
51. Literacy Intervention 2011. Alisa Zeliger ’13 (in collaboration with: Theresa Jackson, graduate student; sponsor: Professor Marianne Wiser)

Steinbrecher Fellowship Program
52. World Bank Urban Upgrading Project in Vietnam Minnie Bui ’13 (sponsors: Professor Sharon Krefetz and Professor John Brown)

Studio Art
53. The Practicing Artist (a series of paintings done over the summer with the Steinbrecher Fellowship). Jared Packard-Winkler ’12 (sponsor: Professor Elli Crocker) - Presentation on 1st Floor.

Study Abroad Office
54. Project Playground: Student Engagement Abroad. Katy Clemenson ’12 (sponsor: Adriane van Gils-Pierce, Director of Study Abroad)

55. African Street Kids Orphanage Foundation: Broadening Horizons for Ghanaian Youth. Kelsey Spratt ’12 (sponsor: Professor David Bell)

Biology (Continued)
12. Confirmation of Arsenate Reductase Activity by Denitrovibrio acetiphilus Protein YP_003504839 Using Cross-Species Complementation. Lina Sanchez ’13 (sponsor: Professor Heather Wiatrowski)

13. Container Breeding Mosquitoes: Distribution and Interactions. Matthew Warndorf ’12 (in collaboration with John Soghigian, graduate student; sponsor: Professor Todd Livdahl)


Carlson School of Chemistry and Biochemistry
15. Synthesis and Structure of Substituted Pyrazine Copper Halide Ladders and Bi Bridged Chains. Stephanie Korunow ’12 (sponsor: Professor Mark Turnbull)


17. Investigations of 5-SAP Copper Bromide/Chloride Magnets. Alexander Gale ’12 (sponsor: Professor Mark Turnbull)

18. Ligand-Detected NMR Studies of Thioflavin T in the Presence of Insulin Fibrils. Veli Selmani ’12 (in collaboration with Kevin J. Robbins & Gai Liu, graduate students; sponsor: Professor Noel Lazo)


20. Synthesis of proton conducting triazole functionalized polymethacrylates via Atom Transfer Radical Polymerization. Derek Luong ’13 (in collaboration with Sean Chen, graduate student; sponsor: Professor Sergio Granados-Focil)

21. Polymer-based carbonate selective electrodes. Rachel Rockwell ’12 (in collaboration with Will Wei, graduate student; sponsor: Professor Christina McGraw)

22. Ion-selective electrodes for marine in-situ applications. Katherine Minnix ’12 (sponsor: Professor Christina McGraw)

23. Synthesis of quaternized 4,4’-dibromobiphenyl 2,2’-bisamine derivatives as monomers for copper catalyzed polymerization. Phillip Boglisch ’12 (sponsor: Professor Sergio Granados-Focil)
24. Synthesis of ammonium functionalized polyphenylenes as anion exchange membranes. Christopher Legacy ’12 (sponsor: Professor Sergio Granados-Focil)

25. Synthesis of new monomers to produce face-segregated ion-conducting polymers. Hunter Gray ’12 (sponsor: Professor Sergio Granados-Focil)

26. Effect of backbone polarity on the proton conducting ability of proton conducting polysiloxanes. Kelli Stockmal ’14 (sponsor: Professor Sergio Granados-Focil)

English
27. Luxembourg American Cultural Society Archival Research, Sponsored by the Henry J. Leir Luxembourg Program. Melissa Patnode ’12 (sponsor: Professor SunHee Kim Gertz)

Geography
28. Farming in Brooklyn and how we can do the same. Harrison Bass ’13 (sponsor: Professor Mark Davidson)

29. Determinants of Coarse Woody Debris Decay: Comparison in Disturbed and Natural Forests. Marcus Pasay ’12 (in collaboration with: Melanie Vanderhoof, graduate student; sponsor: Professor Christopher Williams)

30. Where’s the Beef? Tracing back Boston’s beef supply. Holly Jones ’12 (sponsor: Professor Jody Emel)

Germanic Studies (Self-Design Major)

Graduate School of Management
32. Worcester Biotechnology Cluster Chronology. Lisa Kwiatkowski ’11 (sponsors: Professor Mary-Ellen Boyle, Professor Jing Zhang and Professor Jennie Stephens)

Human -Environment Regional Observatory (HERO)
33. Exploring Water Usage in Suburban Boston. Joe Krahe ’12 (in collaboration with Dan Runfola and Nick Giner, graduate students; sponsors: Professor Jacqueline Geoghegan and Professor Colin Polsky)


35. Urban Ecology and Place-Making: A Neighborhood Approach. Martha Ziemer ’13 (in collaboration with Katherine Foo, graduate student; sponsors: Professor Colin Polsky and Professor Deborah Martin)

Holocaust and Genocide Studies
36. Summer Internships in Holocaust and Genocide Studies. Rachel Gore ’13, Emma Craig ’13 & Morgan Sandler ’13 (sponsor: Professor Shelly Tenenbaum)

International Development and Social Change (IDSC)

38. Youth in El Salvador. Nathalia Vega Dalton ’12 (sponsor: Professor Ellen Foley)

Mathematics and Computer Science
39. Recognizing Tutor Adaptability to Student Behaviour for Future Improvements in Intelligent Tutoring Systems (ITSs). Magali Lema-hieu ’13 (sponsor: Professor Li Han)

40. Finite Topological Spaces. Douglas Crellin ’13 (sponsor: Professor Lee Rudolph)

41. Investigating Convex Configurations of Planar Polygons. Jake Kramer ’12 & Chris Pietras ’12 (in collaboration with Dylan Glotzer ’11 and Matthew Valko ’11; sponsors: Professor Li Han & Professor Lee Rudolph)

Physics
42. Investigations of Extremely 2D Copper Pyrazine Antiferromagnets. Daniel Catanzano ’12 (sponsor: Professor Christopher Landee)

43. Comparison of Pyrazine and Pyrazine n-oxide as Bridging Ligands in Copper Molecular Magnets. Ben Solomon ’14 (sponsor: Professor Christopher Landee)