

FALL FEST 2006

November 15 at 2:00 pm at Goddard Library

an autumn celebration of undergraduate research and creative activity

Biology

1. Real Time PCR Analysis of Glutamine Synthetase Expression in a Marine Diatom. Kevin Brown '08 (sponsor: Professor D. Robertson)
2. North Carolina Bryophyte Biodiversity: An Informatic Approach. Sarah Assefa '07 (sponsors: Blanka Shaw, Jon Shaw, and Christine Davis of Duke University; faculty support: Professor D. Robertson)
3. Recovery of Bermudian Coral Reefs After Devestation. Katrina Twing '07 & Lauren Jorgensen '07 (sponsor: Samantha de Putron of Bermuda Biological Station; faculty support: Professor D. Robertson)
4. Induction of Apoptosis by Mutations in the Binding Loop of the Mojastin Disintegrin. Brandon Gaytan '07 (sponsor: Professor D. A. Larochele)

Chemistry

5. Effects of Mutation on Lysyl Oxidase. Lindsay Peck '07 & Sara McNiff '07 (sponsor: Professor F. Greenaway)
6. Incorporation of Lithium Salts into Mesoporous Silicates for Solid Polymer Electrolytes. Eric Steele '07 (sponsor: Professor L. Smith)
7. Synthesis of Niobium-Silicate Mesoporous Oxides. Thomas Harvey '07 (in collaboration with Xuefeng Wang, graduate student; sponsor: Professor L. Smith)
8. Synthesis and Characterization of 2-Hydroxypyridine Copper (II) Halide Complexes. Christopher Seith '07 (sponsor: Professor M. Turnbull)
9. On the Folding of Islet Amyloid Polypeptide in Water. Darryl Aucoin '07 (sponsor: Professor N. Lazo)

History

10. Summer Internship in Lidice. Daniel Roberts '07 (sponsor: Professor T. Macaulay)
11. Growing Up in Post-War Oswiecim: Calling the City Known as Auschwitz Your Hometown. Jody Manning '07 (sponsor: Professor T. Kuehne)
12. E. Franklin Frazier: Radical or Conservative? [Brooks Marmon](#) '07 (Anton Fellow) (sponsor: Professor B. Grier)

Human-Environment Regional Observatory (HERO)

13. Quantifying Categorical Associations Using Subpixel Mapping. John Connors '06 (sponsor: Professor R. G. Pontius Jr.)

14. The Effects of Land Development on Water Use, Social Integration, and Neighborhood Design in Ipswich, Massachusetts. Kate Del Vecchio '07 (sponsor: Professor C. Polsky)

15. Suburban Drought in Northeastern Massachusetts: Explaining Water Use in Terms of Climate, Land Use Planning and Lawn Irrigation. Dawn Gedenberg '07 & Nagraj Rao '08 (in collaboration with Kate Del Vecchio '07; sponsor: Professor C. Polsky)

16. Mapping Land Cover in Central Massachusetts Using Remotely Sensed Data. Paula Kiviranta '08, Alina Taus '08, & Joe Fortier '07 (in collaboration with Ryan Frazier, graduate student; sponsor: Professor J. Rogan)

International Development, Community, and Environment (IDCE)

17. Medical Service Research in a Maya Region of Chiapas, Mexico: How To Move From Treatment to Prevention? Rachael Kenemore '08 (sponsor: Professor D. Earle)

Physics

18. Erosion of a Granular Bed. Ryan Molloy '07 (sponsor: Professor A. Kudrolli)

Urban Development and Social Change

19. Lessons Learned from the Green/UDSC Summer Internship with Worcester City Councilor Barbara Haller. Brooks Marmon '07 (Anton Fellow) & [Abby Crowley](#) '07 (UDSC Summer Intern)(sponsor: Professor S. Krefetz)