FALL FEST 2004 PROGRAM

**Biology**

1. Distribution of Tuna Eggs and Larvae in the Eastern Mediterranean Sea. Nilufer Rahmioglu '06 (sponsors Professors D. Robertson & I. Oray—Istanbul University)

2. Dietary Analysis of the Mantled Howler Monkey. Brigham Whitman '05 (sponsor Professor D. Robertson and the Institute for Tropical Ecology and Conservation)

3. Targeted Mutation of Drosophila PLC-gamma. Nicole Mills '05 (sponsor Professor J. Thackeray)

4. Knocking Out a Potential Tyrosine Phosphorylation Site in Drosophila PLC-y. Nicole Mills '05 (sponsor Professor J. Thackeray)

**BioChemistry**

5. Attachment Mechanisms of Borrelia Burgdorferi as Mediated by BBK32. Kimberly LeBlanc '05 (sponsor Professor D. Thurlow)

6. Molecular Dynamics Simulations on Mutant Variants of the Protein Toxin Ricin in the Absence and Presence of Human Substrate Analogs Katherine Hynes '05 (sponsor Professor D. Nelson)

7. Molecular Dynamics Simulations of Complexes Between Wild-Type and Mutant Anthrax Protective Antigen Variants and a Model Anthrax Toxin Receptor. Linsey Stiles '05 (sponsor Professor D. Nelson)

**Chemistry**

8. Stereochemistry of the "Forbidden" Concerted 1,2 Carbanionic Shift. Manuel Paniagua '05 (sponsor Professor K. Erickson)


10. Synthesis and Characterization of Silicon Niobium Oxide Mesopores via X-ray Diffraction and BET. Eric Steele '07 (sponsor Professor L. Smith)

**Foreign Languages & Literatures**

11. Design Aesthetics in Urban Japan: Re-interpreting Tradition. Michael Fullerton '05 (sponsor Professor A. Valentine)

**Geography**

12. Coping with Drought in a Humid Climate: The Case of Central Massachusetts. Troy Hill '06, Rebecca Alper '06, and Zohar Tobi '07 (sponsor Professor C. Polsky)

13. The State of Land Use Change Modeling as Measured by Quantitative Validation. Christopher D. Lippitt '05 (sponsor Professor R. Gil Pontius)
14. Using Remote Sensing Data and techniques. Ryan Frazier '06, Trevor Jones '05, Christopher Lippitt '05, Daniel Pomerleau, M.A. '05 (in collaboration with Anna Versluis, graduate student; sponsor Professor J. Rogan)

15. Visualizing the Rate at which the Accuracy of Land Change Prediction Decays. Nicholas R. Malizia '05 (in collaboration with Anna Versluis, graduate student; sponsor Professor R. Gil Pontius)

16. Globalization of Production: The Case of Video Game and Animation Industries. Ian Giddings '06 (sponsor Professor Y. Aoyama)

**Government**

17. Commuter Rail: Linking Boston and Worcester. Celia Spiro '05 (sponsor Professor S. Krefetz)

**ISS Summer Research**

18. Infant Mortality and Inequality: Cross National Research. Timothy Sweetser '07 (sponsor Professor R. Ross)


**Anton Fellowship Program**

Director, Professor S. Krefetz

20. Comparative Perspectives on Local Governments: Cianorte, Brazil and Portsmouth, New Hampshire. Sarah Fineberg-Lombardi '05 (sponsors Professors K. Williams & S. Krefetz)

21. Paintings of Diversity at Clark. Sarah Reardon '05 (sponsor Professor S. Walker)

**Traina Scholar**

22. Stress, Marriage, and Physiology: A Review of the Literature. Nichole Willy '05 (sponsor Professor J. Cordova)

**Urban Development & Social Change summer Research Fellowships**

23. An Inner-City Neighborhood on the Brink of Revitalization: The Green Island/Canal District in Worcester. Carly Coppola '06, Carliln Johnson '05, Jared Swerzenski '05, & Evan Wilson '06 (in collaboration with Sarah Loy, graduate student; sponsor Professor S. Krefetz)

24. Resolving Conflicts and Facilitating Cooperation: Lessons Learned from an Internship with Worcester City Councilor Barbara Haller. Kara Younkin '05 (sponsor Professor S. Krefetz)