

### Physics

26. *Random packing density of polyhedrons.* **Jessica Baker '09**  
(sponsor: Professor Arshad Kudrolli)

27. *Mechanics of an auto-rotating strip in a flexible regim.*  
**Michael Robitaille '09** (sponsor: Professor Arshad Kudrolli)

28. *Upper critical field study in organic superconductor  $\lambda$ -(BETS)  
 $2\text{GaCl}_4$  [BETS = bis(ethylene-dithio)tetraselenafulvalen].*  
**Laurel Winter '09** (sponsor: Professor Charles Agosta)

### Sociology

29. *Global health inequality.* **Chelsea Ellingsen '10**  
(sponsor: Professor Robert Ross)

### Urban Development and Social Change Program

30. *Perspectives on Worcester government and politics gleaned from a  
summer internship with City Councilor Barbara Haller.* **Rachel Ross '09**  
(Lois and Robert Green UDSC Summer 2008 Intern ; sponsor: Professor  
Sharon Krefetz)

### Steinbrecher Fellows

31. *The role of insulin receptor substrate 2 (IRS-2) in Apelin Gene  
Expression regulation.* **Dushani Palliyaguru '09**  
(sponsors: Professor David Thurlow & Leslie Shaw—UMass)

32. *Negotiating space: Business, pleasure, and ritual in Java, Indonesia.*  
**Peter Gray '10** (sponsor: Professor James Murphy)

33. *From microlending to mosquito nets: Fieldwork with the  
WomensTrust and Against Malaria organizations in Ghana, West  
Africa.* **Sasha Chait '10** (sponsor: Professor Ken MacLean)

34. *Dialogue and community organizing.* **Hannah Caruso '09**  
(sponsor: Professor Sarah Buie)

### V&PA

35. *Reconstructing history for today: The Antioch and Cragum  
Archaeological Research Project.* **Lily Acunzo '08, Michael Bond '10,  
Claire Frost '10, Susan Herringer '09, Kami Lemke '10, Julia  
McKinley '10, & Justin Winter '10** (sponsor: Professor Rhys Townsend)

### Clark Voices

Clark Voices is Clark University's oral history podcast about academic life at Clark. Join us in the Lasry Lobby from 2-4pm during Fall Fest. Record your story about a favorite class, professor, team project, study abroad experience, research study, or any other academic area. Record your story alone or with a friend. We'd love to hear from you!

# FALL FEST 2008

November 5  
2-4pm  
Lasry Lobby

Sponsored by  
The Frances L. Hiatt School of Psychology & Dean of the College  
Contact James Cordova x7268 or Lisa Mann x7278 for more information

## Biochemistry and Molecular Biology

1. *Antibodies as tools to study Fanconi Anemia*. **Dmitry Merzon '09** (sponsors: Professor David Thurlow & Alan D'Andrea—Dana Farber Cancer Institute)
2. *Purification of protein of interest*. **Chatura Jayakody '10** (sponsors: Professor David Thurlow & Scott Gridley—BlueSky Biotech)
3. *The effects of tumor suppressor gene p16INK4a on transformation phenotypes in HCC*. **Annette Nelkenbaum '09** (sponsors: Professor David Thurlow & Brian Lewis—UMass)

## Biology and Chemistry Departments

4. *Experience induced changes in taste sensitivities for glucose and monosodium glutamate (MSG)*. **Alison N. Le '09 & Bennett R. Collins '11** (sponsor: Professor Linda Kennedy; collaborating grad student: Kristina M. Gonzalez)
5. *Mor 2.0—Automation of phylogenetic analyses*. **Heider Thomas '09 & Chuck Ha '09** (sponsor: Professor David Hibbett)
6. *Fishing in Alaska: Why the Threespine Stickleback*. **Rachel LaBranche '09** (sponsor: Professor John A. Baker)
7. *Cancer: A way of reaching new frontiers*. **Theresa Yoon '09** (sponsor: Professor Timothy Lyerla)
8. *Application of classical genetics for transgene manipulations in mice*. **Christopher Auger '09 & James Wilson '09** (sponsor: Professor Timothy Lyerla)
9. *Investigating SH3 domain function in Drosophila PLC-gamma*. **Mark van der Lee '09** (sponsor: Professor Justin Thackeray)
10. *Generating an HA-tagged PLC-gamma protein in Drosophila*. **Fouad Bouzeineddine '09** (sponsor: Professor Justin Thackeray)
11. *Characterization and molecular evolution of glutamine synthetase in green algae*. **Jacqueline Mitchell '09** (sponsor: Professor Deborah Robertson; collaborating grad student: Sohini Ghoshroy)
12. *Synthesis, structure, and magnetic properties of bis(3-amino-2-chloropyridinium) tetrahalocuprate (II) [halogen = Cl or Br]*. **Susan Herringer '09** (sponsor: Professor Mark Turnbull)
13. *Filling a silica mesopore with water soluble precursors of LiLaTiO<sub>3</sub>*. **Melissa Loving '09** (sponsor: Professor Luis Smith)
14. *Structural studies of protofibrils from the Amyloid-beta protein*. **Di Deng '10** (sponsor: Professor Noel Lazo)
15. *Sol-gel supported proton "shuttles" as proton exchange membranes for fuel cells*. **Justin Conway '09** (sponsor: Professor Sergio Granados-Focil; collaborating grad student: Robert P. Doyle)

16. *Isolation of a Prophage Helicase from Bacteroides thetaiotaomicron*. **Ricky Lane '09** (sponsor: Professor Donald Crampton)

## Geography

17. *Pixel versus object based image analysis using a MAXLIKE classifier in Westborough and surrounding towns*. **Natalie Susmann '09** (sponsors: Professors John Rogan and Ron Eastman)
18. *Monitoring forest change in Massachusetts using Multitempora Landsat Imagery*. **Rachel Shmookler '09, Valerie Locker '09, Andrew Caiazzo '09, & Samuel Blanchard '09** (sponsor: Professor John Rogan; collaborating grad student: Nicholas Bumbarger)

## Global Environment Studies

19. *Summer of solutions: Organizing for community-based solutions to climate change*. **Callista Perry '11 & Ashley Trull '10**

## HERO

20. *Assessing community vulnerability to the effects of fisheries regulations: Methodological challenges and opportunities with the Vulnerability Scoping Diagram (VSD)*. **Jaelyn Green-Stock '09** (sponsor: Professor Colin Polsky)
21. *Suburbanization, zoning, and lawn characteristics: Preliminary insights from the Ipswich River Watershed*. **Kelsey Herrington '09** (sponsor: Professor Colin Polsky; collaborating grad student: Arijit Guha)
22. *Sub-meter object oriented classification of NE Massachusetts*. **Albert Decatur '09 & Jenner Alpern '09** (sponsor: Professor Colin Polsky; collaborating grad students: Rahul Rakshit & Nick Giner)

\*From ASD 2008, the following project did not appear in the program\*  
*Integrating remotely sensed data and environmental variables to map forest cover in Massachusetts*. **Nick Bumbarger '08, Samuel Blanchard '09, Alina Taus '08, & Joseph Fortier, MA '08** (sponsor: Professor John Rogan)

## International Development, Community, & Environment

23. *Emerging energy technologies in the media: Comparative state-level analysis*. **Leah Melnick '10** (sponsor: Professor Jennie Stephens; collaborating grad student: Gabriel R. Rand)

## International Studies Stream (ISS)

24. *The relationship between income inequality, social factors, and health: Case study of Washington, DC*. **Lindsay Carpenter '10** (sponsor: Professor Robert Ross)

## Mathematics and Computer Science

25. *Homotopy curves of linkage systems: The 5-sided loop case*. **Dan Menard '09, Sam Dorsey-Gordon '09, James Wilson '09, Jon Moran '10, & Dylan Glotzer '11** (sponsors: Professors Li Han & Lee Rudolph)