

**RESEARCH MENTORSHIP SYMPOSIUM**

-- Tuesday, July 29, 2003 --

**10:00 – 10:10AM** Opening remarks: Mr. Robert Mann, Summer Sessions Associate Director; Dr. Miriam Polne-Fuller Research Mentorship Program Director

**10:10 – 10:30AM**

*Title:* Effects of BLA Inactivation on Apomorphine-induced Locomotor Activity and Contralateral Turning

*Presenter:* **Maria Martinez** and **Kendall Snyder**

*Mentor:* Vanessa Woods, Psychology

**10:30 – 10:50AM**

*Title:* Using Flares from Tidally Disrupted Stars as Evidence for Supermassive Black Holes in Galactic Centers

*Presenters:* **Nicole Blume** and **Amy Moore**

*Mentor:* Tom Fuller, Physics

**10:50 – 11:00AM**

*Title:* Multiscale Simulations of Biochemical Reactions

*Presenter:* **Brian Wu**

*Mentor:* Yang Coa, Computer Science

**11:00 – 11:35AM**

*Title:* Development of a Low Noise, High Performance Data Acquisition System for use with Bolometric Radiotelescope Detectors

*Presenter:* **Mark Croce**

*Title:* The Methods and Operation in the Design, Construction and Use of Photo Resisting Filters

*Presenter:* **Daniel Stanley**

*Title:* Effective Temperature Regulations of the Front End Electronics for a Bolometer Based System

*Title: Presenter:* **Umair Samir**

*Mentor:* Nathan Stabor, Physics

**11:35 – 11:55AM**

*Title:* Development of a Digital Sound Library

*Presenters:* **Ryan Boehm** and **Ben Parr**

*Mentor:* Bo Bell, Music

**11:55 – 12:05PM**

*Title:* Examining Gender Differences of Substance Abuse in High School on Future Earnings

*Presenter:* **Danielle Baer**

*Mentor:* Fernando Lozano, Economics

**12:05 – 12:25PM**

*Title:* The Effect of Nitrogen Additions on Microbial Communities

*Presenter:* **Michelle Kohn** and **Jennie Phouthavong**

*Mentor:* Allen Doyle, EEMB

**12:25 – 12:35PM**

*Title:* Exploring the Role of Protein Tailoring in Mussel Adhesion

*Presenters:* **Anthony Krumeich**

*Mentor:* Herbert Waite, EEMB

**RESEARCH MENTORSHIP SYMPOSIUM**

-- Wednesday AM July 30, 2003 --

**10:00 – 10:10AM** Opening Remarks: Dr. Ronald Tobin, Dr. Loy Lytle and Dr. Miriam Polne-Fuller

**10:10 – 10:30AM**

*Title:* Claiming Controversy: An Analysis of Scientists' Talk on Parthenogenesis

*Presenter:* **Janice Yu** and **Zachary Paige**

*Mentor:* Mary Ingram, Sociology

**10:30 – 10:40AM**

*Title:* Time Horizon Portfolios and Optimal Asset Allocation

*Presenter:* **Aseem Vyas**

*Mentor:* Apollo Lupescu, Economics

**10:40 – 10:50AM**

*Title:* Mobile Homelessness in Santa Barbara: Nowhere to Go

*Presenter:* **Elizabeth Best**

*Mentor:* Michele Wakin, Sociology

**10:50 – 11:00AM**

*Title:* k-Nearest Neighbor and Support Vector Machines in Supervised Data Classification

*Presenter:* **David Chen**

*Mentor:* Gang Wu, Electrical & Computer Engineering

**11:00 – 11:10AM**

*Title:* The Use Of Fractals In Analyzing Protein Sequences

*Presenter:* **Josh Smolow**

*Mentor:* Anand Meka, Computer Science

**11:10 – 11:20AM**

*Title:* Comparison of Aging Methods of Otoliths in Rockfish

*Presenters:* **Daniel Morton**

*Mentor:* Julie Standish, EEMB

**11:20 – 11:30AM**

*Title:* Properties of Sandwich Beams Subjected to Underwater Detonations

*Presenter:* **Michael Burnam-Fink**

*Mentor:* Shane Flores, Engineering

**11:30 – 11:40AM**

*Title:* The Effect of Central East Campus Drain on the Near Coastal Waters

*Presenter:* **Mariza Ruvalcaba**

*Mentor:* Tim Robinson, Bren School of Environmental Science & Management

**11:40 – 11:50AM**

*Title:* Eastern Religious Influences on Modern American Popular Film

*Presenter:* **Andy Appleton**

*Mentor:* Jonathan H.X. Lee, Religious Studies

**11:50AM – 1:00PM LUNCH BREAK**

**RESEARCH MENTORSHIP SYMPOSIUM**

-- Wednesday PM July 30, 2003 --

**1:00 – 1:10AM Welcome Back**

**1:10 – 1:40PM**

*Title:* The Influence of Temperature And Substrate On The Fermentation Rate of Intestinal Microflora In Herbivorous Fishes

*Presenter:* **Krystal Santos**, and **Jennifer Pham**

*Presenter:* **Neil Shah**,

*Mentor:* Mike Behrens, EEMB

**1:40 – 2:00PM**

*Title:* Photosynthetic Response Of Diatoms to Light Variations In The Water Column

*Presenter:* **Satpreet Singh** and **Monika Stewart**

*Mentor:* Gabrielle Johnson, EEMB

**2:00 – 2:20PM**

*Title:* Increased Growth Rate In *Haliotis Rufescens* As a Result Of Delaying Metamorphosis

*Presenter:* **Tania Millan** and **Matt Segal**

*Mentor:* Clara Svedlund, EEMB

**2:20 – 2:30PM**

*Title:* Comparison of Aging Methods: Aging Using Lapilli vs. Sagittae in Kelp Rockfish

*Presenters:* **Danielle Danetra**

*Mentor:* Julie Standish, EEMB

**2:30 – 2:40PM**

*Title:* The Level Of Ubiquitin Conjugates and Temperature Of Mussels When Heat Shock and Emersion Are Involved

*Presenter:* **Kara C. Peariso**

*Mentor:* Patricia Halpin, EEMB

**2:40 – 3:00PM Break—Please set up posters in courtyard**

**3:00 – 3:15 WELCOME:** Dr. Loy and Dr. Tobin

**3:15 – 3:25PM**

*Title:* A Study Of Plant Protein Interactions Involved In Abscisic Acid Signaling

*Presenter:* **Julie Friedman**

*Mentor:* Emily Garcia, EEMB

**3:25 – 3:35PM**

*Title:* Socializing Discipline in TAK Culture

*Presenter:* **Sandra Rodriguez**

*Mentor:* Sara Jones, Sociology

**3:35 – 3:55PM**

*Title:* Effects Of Opponent-Process Actions Of Intravenous Cocaine And Cocaethylene On Conditioned Place Preference In Laboratory Rats

*Presenter:* **Vannesa Cisneros** and **Priscilla Swenson**

*Mentor:* Lori Knackstedt, Psychology

**3:55 – 4:05PM**

*Title:* How Does *E. Coli* Cause Urinary Tract Infections?

*Presenters:* **Kathleen Tse**

*Mentor:* Stephanie Snyder, Chemistry

**4:05 - 4:30PM**

*Title:* Inattention Blindness and It's Effect on Visual Perception of Biological and Non-Biological Stimuli

*Presenters:* **Alexis Treacher**

*Title:* Intrinsic Ability of Animals Vs. Vehicles to Capture Attention Under Tedium Induced Inattention

*Presenters:* **Patrick Tsai**

*Mentor:* Joshua New, Psychology

**4:30 – 5:00PM Poster Social - Students Research**