

## NEWS FROM AROUND THE COLLEGE

### Department of Biological Science

On November 3<sup>rd</sup>, **Dr. Doug Eernisse** presented a seminar at The National Evolutionary Synthesis Center, Duke University, Durham, NC, entitled: "Will comparing phylogenetic and phylogeographic patterns of West Coast chitons and limpets help explain spectacular parallel radiations?"

On November 12<sup>th</sup>, **Dr. Doug Eernisse** presented a paper at the 2006 Annual Meeting of the Western Society of Naturalists (with co-author, Ryan Kelly, Hopkins Marine Station, Stanford University) in Redmond, WA. The paper is titled "Similar larval duration does not mean similar phylogeographic pattern in West Coast chitons."

Several students attended the 2006 SACNAS conference in Tampa, Florida to present their research:

**Daniel Diaz**, a graduate student in the laboratory of **Dr. Robert Koch**, made an oral presentation entitled, "Finding Membrane Microdomains (Lipid Rafts) on *Ascidia ceratodes* sperm cells."

**Elizabeth Soria**, a graduate student in the laboratory of **Dr. Robert Koch**, made an oral presentation entitled, "Studies of FAK in Sperm Activation in *Ascidia ceratodes*."

**Jose Corleto**, an undergraduate student and MARC Scholar in the laboratory of **Dr. Robert Koch**, made a poster presentation entitled, "Actin:Myosin Interactions in Ascidian Sperm during Fertilization."

### Department of Chemistry & Biochemistry

Senior forward **Eugene Brooks** has been selected to the ESPN The Magazine Academic All-America men's soccer first team. The El Paso, Texas, native is a biochemistry major with a GPA of 3.84 on a scale of 4.0. He qualified for the national ballot by making first-team All-District 8 earlier in November. Brooks is the leading scorer in the Big West Conference with 12 goals and 26 points. He earlier earned first-team All-Big West Conference honors to go with honorable mention status in 2002 and 2005. His goal total tied for eighth best on the Titans' list of single-season totals. Eugene works in **Dr. Chandra Srinivasan's** lab and will graduate in December. He also won the Wiley outstanding student in Biochemistry award last year.

**Dr. Zhuangjie Li** recently published a paper in The Journal of Physical Chemistry: "Kinetics Study of OH Radical Reactions with *n*-Octane, *n*-Nonane, and *n*-Decane at 240-340 K Using the Relative Rate/Discharge Flow/Mass Spectrometry Technique", *J. Phys. Chem. A* **2006**, *110*, 12150-12157. The paper was authored by Zhuangjie Li, Sumitpal Singh (graduate student), William Woodward (REU student), and Lan Dang (undergraduate student).

---

Dean's Office  
 MH 166  
 714 . 278 . 2638

---

#### Dean

Dr. Steven Murray  
 smurray@fullerton.edu

#### Associate Dean

Dr. David Fromson  
 dfromson@fullerton.edu

#### Assistant Dean

MH 488  
 Rochelle Woods  
 rwoods@fullerton.edu

#### Dept. of Biological Science

MH 282 / 714.278.3614  
 Dr. Robert Koch, Chair  
 rkoch@fullerton.edu

#### Dept. Chemistry & Biochemistry

MH 580 / 714.278.3621  
 Dr. Maria Linder, Chair  
 mlinder@fullerton.edu

#### Dept. of Geological Sciences

MH 254 / 714.278.3883  
 Dr. Diane Clemens-Knott, Chair  
 dclemensknott@fullerton.edu

#### Dept. of Mathematics

MH 154 / 714.278.3631  
 Dr. Paul Deland, Chair  
 pdeland@fullerton.edu

#### Dept. of Physics

MH 611 / 714.278.3366  
 Dr. Murtadha Khakoo  
 mkhakoo@fullerton.edu

#### Program in Science Education

MH 527 / 714.278.2307  
 Richard Lodyga, Director  
 rlodyga@fullerton.edu

---

## Department of Geological Sciences

**Dr. Brandon Browne** was invited to speak to about 100 high school students about career options in the sciences and service to the environment at the first annual "EarthWorks: Careers That Serve the Planet," hosted by the Los Angeles County Education Foundation and funded by the EPA, Metropolitan Water District and REI on Tuesday, November 28 at the Blue Sky Meadow Science Institute in the San Bernardino National Forest.

**Dr. Adam Woods** presented a talk at GSA in Philadelphia, PA on October 25, along with Aymon Baud of the University of Lausanne, Switzerland, entitled: "Unusual Lower Triassic (Smithian-Spathian) seafloor precipitates, microbialites, and carbonate cements from the Lower Alwa Formation, Wadi Alwa Megablock, Oman: Implications for the biotic recovery from the Permian-Triassic mass extinction."

**Dr. Adam Woods'** students presented the following talks at GSA:

**Bob Kervin** (October 23): "Sequence stratigraphy and paleokarst evolution of the Ordovician Antelope Valley Limestone near Beatty, NV."

**Michelle Mary** (October 25): "Stromatolites of the Lower Triassic Union Wash Formation and their significance for the biotic recovery following the Permian-Triassic mass extinction."

**Scott Mata** (October 25): "Sedimentologic and paleontologic analysis of the Lower Member of the Early Triassic Union Wash Formation: Paleoceanographic conditions along the western coast of North America following the Permian-Triassic mass extinction."

Two graduate students under the supervision of **Dr. Adam Woods** have successfully defended their Master's theses on November 17:

**Bob Kervin**, with thesis title: "Paleokarst evolution of the Ordovician Pogonip Group near Beatty, NV."

**Brenda ten Bruggencate**, with thesis title: "Paleoproductivity and Paleoredox in the Union Wash Formation, East-Central California: Evidence and mechanism for prolonged biotic recovery in the Early Triassic."

**Jennifer Schmidt** (BSc Geology) is presenting results from her undergraduate research thesis at the Fall American Geophysical Union Meeting in December in San Francisco. Her presentation is titled "Searching a Holocene coastal lagoon for paleotsunami deposits: Kamala Beach, Phuket, Thailand." Her co-authors are **Dr. Matt Kirby**, **Dr. Brady Rhodes**, and **Kruawun Jankaew**.

**Dr. Matthew Kirby** presented the plenary talk at the CSUF Freshman Honors Meeting on November 29, 2006. The talk was titled "Global Warming: A Case For Human-Climate Interaction and Reaction?"

## Department of Mathematics

**Dr. Charles H. Lee** co-authored with Drs. Girerd, Meshkat, and Edwards (JPL, Caltech) on a paper addressing the current and decade-plus capability of the gradual evolving Mars Communications Network. Their model on network robustness took into account the telecommunications capability of the existing and projected relay orbiters, orbiter fuel life, potential network alterations and other probabilistic factors such as the forecasted orbiter maneuvers and orbiter reliability. The citation is as follows: Lee, C. H., Girerd, Meshkat, & Edwards. (2006, December). A Model to Assess the Mars Telecommunications Network Relay Robustness. *Journal of the British Interplanetary Society*, 59(12), 443-449.

Undergraduate student **Uyenly Tran**, gave an oral presentation about her work under **Dr. Charles H. Lee** on Optimal Stocks Allocations using the Principal Component Analysis at the Southern California Conferences for Undergraduate Research on November 18<sup>th</sup> at Occidental College.

**Dr. Margaret Kidd** joined other math educators at the National Council of Teachers of Mathematics (NCTM) Regional Conference and Exposition in Phoenix, October 5-7. The conference theme was "Show Me the Mathematics—Learning through Representation in Phoenix: A Diamond in the Desert."

## MARC

Second-year MARC scholar **Richard Parenteau** was awarded an Outstanding Poster Presentation by the American Society for Microbiology at the Annual Biotechnology Conference for Minority Students in Anaheim on November 8—11. Richard presented the research that he is conducting in the laboratory of **Dr. Marcelo Tolmasky**.

# Dimensions

*The Journal of Undergraduate Research in Natural Sciences and Mathematics*

## Wants you!

*Dimensions* is looking for authors. If you have research you would like to publish, please contact the appropriate section editor (see below). You can publish a full article or an extended abstract.

For the past eight years, NSM students have organized, written, edited and published this journal. It's quite an accomplishment to publish your undergraduate research work in a field where becoming published usually occurs in graduate school or as a professional. Publishing an article in *Dimensions* is an excellent way to make yourself more marketable for future endeavors.

Dr. Steve Murray, Dean of the College of Natural Sciences and Mathematics, will provide an additional benefit for the authors of full papers published in *Dimensions*. When the author is applying to graduate school or for employment, a journal and cover letter from the dean will be sent to the appropriate committee upon request.

### Timeline

Friday, December 15, 2006    Intent to Submit forms submitted to section editors  
Friday, February 2, 2007    Articles and packet submitted to section editors

### Editorial Board

<b>Biology</b>	Keisha Baker	kb227151@student.fullerton.edu
<b>Chem/Biochem</b>	Dennis Ancheta	xxdennizzlexx@aol.com
<b>Geology</b>	Jenny Arkle	jennyarkle@hotmail.com
<b>Mathematics</b>	Michael Martinez	mmartinez@csu.fullerton.edu
<b>Physics</b>	Kathryn Mendenhall	kate51982@yahoo.com
<b>Editor-in-chief</b>	Sarah Blessum	esblessum@hotmail.com
<b>Advisor</b>	Rochelle Woods	rwoods@fullerton.edu

For more information and all paperwork, please contact the appropriate section editor.

## Community Service Opportunity

On January 13, 2007, the members of SACNASM (Society for the Advancement of Chicano/Latino and Native Americans in Science and Math) are participating in a trip to Baja Orphanages sponsored by the Corazon de Vida Foundation.

Volunteers are needed to play games, help with building projects, or hold an infant who needs love. You do not have to speak Spanish.

### Esperanza/La Roca Orphanage Visit

Two pick up locations:

**Los Angeles County:** Meets at 5:15 a.m., returns about 7:00 p.m.

Skirball Park & Ride off of the 405 freeway, Mulholland Drive exit. There are Park & Ride signs on the freeway directing you to the lot, which is on the EAST side of the freeway.

**Orange County:** Meets at 6:15 a.m. returns about 5:00 p.m.

Meets at the Corazon de Vida Office:

2062 Business Center Drive

Irvine, 92612

From the 405 freeway, exit Macarthur Blvd, turn left. Turn left on Michelson, left on Dupont. Turn right into second driveway, (2062 Business Center Drive). Park in rear lot.

There is a \$25.00 fee for participating that covers the cost of a meal, transportation, crafts for the children and toll road expenses.

Everyone must have a valid identification (Drivers license, passport, certified birth certificate) for return to the United States. Non-US citizens MUST have a valid passport, valid green card, valid visa or PR card. Each person is responsible for bringing the proper ID to get back to the USA.

Please RSVP to Crystal at (714) 278-8331. THERE IS LIMITED SEATING, SO PLEASE RSVP. THE DEADLINE TO SIGN-UP IS TUESDAY, DECEMBER 6.

Information about the Corazon de Vida Foundation is available on their website:

[www.corazondevida.org](http://www.corazondevida.org).

## Jack Kent Cooke Foundation: Graduate Scholarship Program

Any graduating seniors who plan to begin a full-time graduate program in fall 2007 should consider applying for the **Jack Kent Cooke Foundation: Graduate Scholarship Program**. The award covers a portion of educational expenses including tuition, living expenses, required fees, and books. **The maximum amount available per student per year of study is \$50,000 and the maximum length is six years.**

**Minimum eligibility requirements** include the following:

- must be a senior or recent graduate (since May 2002)
- must have a 3.5 cumulative GPA
- must have unmet financial need
- must plan to attend a full-time graduate or professional degree program in fall 2007.

Please note: applicants must be nominated by the university. **Campus deadline to apply is February 15, 2007.** For further information, contact **Carmen Curiel**, Director of Honors & Scholars Support Services at (714) 278-7444 or email at [ccuriel@fullerton.edu](mailto:ccuriel@fullerton.edu). Also, please visit the website at [www.jackkentcookefoundation.org](http://www.jackkentcookefoundation.org) for more details.

## Light of the World

Presented by the Vietnamese Catholic Student Association

**“Light of the World”  
Spirit of Advent & Christmas**

**Tuesday, December 5<sup>th</sup>  
6 pm – 9 pm  
TSU Pavilion B**

FREE FOOD and Student Talent Show

Sponsored by the Association for Intercultural Awareness (AICA) and  
Associated Students Inc. (ASI)



## Janine Gonzalez MCAT® Scholarship

**\$1650 DOLLAR VALUE!**  
**Deadline: January 31<sup>st</sup>, 2007**

The Latino Medical Student Association is soliciting applications for the Janine Gonzalez MCAT® Scholarship. This scholarship is designed to assist pre-medical students in their educational pursuits and to increase the pool of underrepresented students entering the medical profession. Personal qualities, financial need, academic and extracurricular achievement will be taken into consideration in the selection process. MCAT® Prep courses will be awarded from donations by specific preparation course companies.

### ELIGIBILITY

- Must be committed to pursuing a professional career in medicine and dedicated to serving the Latino community.
- Must demonstrate a desire to advance the state of healthcare and education in Latino communities through leadership in extracurricular activities and/or membership in civic organizations.
- Must have completed at least 2 years at a 4-year institution, including a year of chemistry, physics, and biology and at least one semester of a course in compositional writing or its equivalent before the desired MCAT® testing date. Transfer students from community colleges must have completed at least one year at a 4-year university prior to taking the MCAT®. Post-baccalaureate students that have completed most of their pre-medical requirements are also eligible to apply.

To apply, visit [http:// www.lmsa.net/scholarships.htm](http://www.lmsa.net/scholarships.htm) and follow the instructions.

Note: Applications are reviewed on a rolling basis

**Awardees have up to 1 YEAR to claim the scholarship!**

For **Faster Processing** and/or questions contact **Don Portocarrero** at: [dportocarrero@westernu.edu](mailto:dportocarrero@westernu.edu)



**Biological Science**  
**Wednesdays @ 4 pm in MH-513**

December 6

Speaker: Dr. Jennifer Trevitt (Department of Psychology, CSUF)  
 Host: Dr. Danielle Zacherl  
 Topic: "Caffeine; A new therapy for Parkinson's disease?"



*Holiday Fun at Tucker*

**\*\*\* Gingerbread House & Cookie Decorating \*\*\***

**Saturday, December 9, 2006**

**11:00 a.m. – 1:00 p.m.**

**Kids of all ages!**

**Cost: \$5.00**

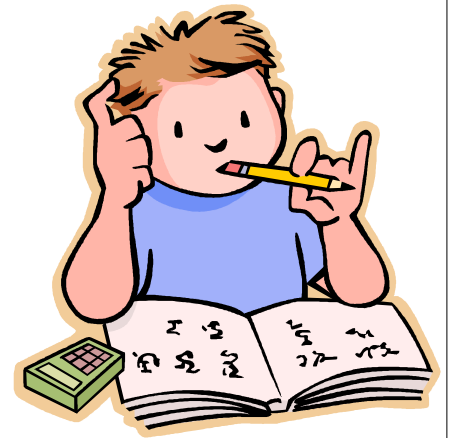
**RSVP: (714) 649-2760**

**Where: Tucker Wildlife Sanctuary**

**29322 Modjeska Canyon Rd. Modjeska Canyon, CA**

Come to Tucker Wildlife Sanctuary for a day of holiday fun! You can make and decorate your own gingerbread houses and holiday cookies. Prizes will be awarded for outstanding decorators! Join us for this spectacular event and as always enjoy the animals, trails and beautiful scenery of Modjeska Canyon. Sign up now!

# Good Luck with Finals!



# Have a wonderful Winter Break!



# See you back in January !!!