Dear Faculty and Staff,

This semester seems to have zipped by and here we are way past Thanksgiving and finishing finals week. It’s been a very busy time for all, but for our students, it has also been a time of real achievement. Our students are involved in many activities such as research, internships, student government, athletics, and peer mentoring that greatly add to their overall educational experience and personal growth while at CSULB. We are pleased to highlight some of those achievements in this issue of the College Highlights. Congratulations to those who have won awards! We are proud of all our students.

A special thanks also to all of you who work with the students and help them achieve their goals and successes.

Here’s to a great end of the semester and a wonderful holiday season for all. I enjoyed seeing so many of you at our College Holiday Celebration last Friday.

Laura Kingsford, Ph.D.
Dean
College of Natural Sciences and Mathematics
California State University, Long Beach

Annual Biomedical Research Conference for Minority Students (ABRCMS)

Recognition as “Outstanding” was earned by three of the 13 presentations made by CNSM students who presented at the Annual Biomedical Research Conference for Minority Students (ABRCMS) in Orlando, Florida in November. Marc Quijano was recognized for his oral presentation, and Christian Aguilera and Theresa Austria were recognized for their poster presentations.

The ABRCMS is the largest multidisciplinary student conference in the United States. Each year, the conference attracts approximately 2,600 individuals, including 1,650 undergraduate students, 300 graduate students/postdoctoral scientists and 750 faculty and administrators. This year, the ABRCMS selected 1200 submissions for (Continued on page 5)

Students and Faculty at the awards banquet: first row (seated, from left to right): Theresa Austria, Henry Valli, Meredith Flores, Eedel Abud, Marc Quijano. Second row: Daisy Johnson, Melina Juarez, Jessica Ruiz (LBCC), Johana Rodriguez, Tami Gonzalez, Denise Moreno, Maria Rios (Cerritos College). Third Row: Roger Bauer, Thara Sam, Balwant Khatra, Marco Lopez, Henry Fung, Tim Feliciano, Christian Aguileria, and Brenda Velis.
Beneath 100 meters of water, just offshore of Santa Barbara, may lie the best paleoclimate record in the world...if only we could reach it. This November, five grad students from the Department of Geological Sciences accompanied Professor Rick Behl on a 12-day, NSF-funded expedition to the Santa Barbara Channel that is crucial to an international project to extend the highest-resolution Quaternary paleoclimate record in the world a million and a half years farther back in time. Thirty-three scientists, technicians, and students set sail from San Diego on November 8, onboard the R/V Melville, a 279’ research vessel operated by the Scripps Institution of Oceanography. The crew consisted of scientists and students from CSULB, UC San Diego, UC Davis, UC Santa Barbara, University College London, Oregon State University, University of Michigan, Indiana University, Stanford, the US Geological Survey, and private industry. Their aim was to acquire valuable sediment cores and subsurface seismic profiles from targeted areas in the Santa Barbara Channel that held the potential of revealing secrets to a major interval of climate change called the “Mid-Pleistocene Transition”, between 0.8 and 1.2 million years ago.

CSULB was ably represented by Geology grad students Diane Escobedo, Carlye Peterson, Sara Afshar, Diane Escobedo, and Greg DeHoogh. They worked around the clock, mostly on midnight-to-noon or noon-to-midnight shifts. The students played critical roles in selection of core sites, core handling, description, sampling, and analysis, positioning and navigation for acquisition of seismic lines, seismic data processing and subsurface interpretation. They (plus Behl) formed the largest contingent from any university and they made a strong impression on the other scientists. Their interactions have already led to new research collaborations – particularly with UCSB – in which our students will work on new or related NSF-funded projects or will have UCSB professors on their thesis committees. This expedition was funded by the third in a series of collaborative NSF grants to open “windows” into the past to study the nature of abrupt climate change, in which the California coast repeatedly switched from wet, glacial chill to arid, warm climates in less than an undergraduate’s lifetime.

Aside from the science, the expedition was memorable in many ways. The first day out was into gale-force winds and 15-20’ swell, and even the most experienced sea-dog spent far too much time hanging over the side rails of the Melville. The rest of the cruise was characterized by perfect swimming pool like conditions, flatter than a lake, but with hundreds of dolphins, whales, sea lions, and birds to distract us. Even the firestorms on land made themselves present as we watched the Santa Barbara/Montecito “tea” fire burn down the mountains into the beautiful homes in the foothills, followed by surreal, smokey, pastel-colored sunrises and sunsets over the ocean.
Highlighting New Faces

Welcome to Highlighting New Faces – our way of introducing you to new people in the college. We hope that this will give you a little insight into the person along with his/her professional background and achievements. At the very least, it will give you something to talk about when you introduce yourself to the individual.

Chung-min Lee, Assistant Professor, Applied Mathematics

Up for “New Faces” this time is Dr. Chung-min Lee. Chung-min is maybe not quite so new as she joined the faculty here in the fall of 2007. However, Chung-min is in the Department of Mathematics and Statistics, so it’s likely that many of the science faculty members have not met her yet. Chung-min completed her Ph.D. degree in mathematics from Indiana University Bloomington in the summer just before starting her appointment as an Assistant Professor here at CSULB. She has B.S. and M.S. degrees in mathematics from National Taiwan University. She is particularly interested in science and engineering applications of partial differential equations and the numerical methods needed. Her current research focuses on optical phase reconstruction problems using intensities modeled by partial differential equations.

Chung-min says she enjoys learning about other fields and discussing problems with people outside of the mathematics department. As an undergraduate, she participated in a research project in a Micro-Electro-Mechanical System Lab and also did a semester project with a geology student on the weathering of limestone. As a graduate student, she attended an Industrial Mathematical and Statistical Modeling Workshop where she worked with graduate students from various areas in mathematics and studied a problem related to biological interaction networks for drug discovery. Thus, she enjoys working on various interdisciplinary problems and is someone the scientists should get to know.

Chung-min grew up in Taiwan. After she finished her bachelor’s and master’s degrees, she came to the U.S. in 2001 for her Ph.D. work. She spent six years in Bloomington, Indiana and studied partial differential equations with applications in optics under the direction of Professor Jacob Rubinstein. She met her husband, Joshua, in the math department there. Joshua studied mathematical logic with applications to game theory and computer security and also has a Ph.D. in Mathematics.

(Continued on page 4)

Chemistry Students in the Mezyk RadKEM Laboratory (Contributed by Stephen Mezyk)

This was another extremely successful year for the Mezyk RadKEM laboratory in the Chemistry and Biochemistry Department at CSULB with a research group of 12 undergraduates and two Master’s students continuing to enjoy success. Some notable highlights include:

Devin Doud (Biochemistry major) enjoyed a fantastic research year starting with receiving the Beckman Scholars Program scholarship last June. His research on understanding of the role of ubiquitous organic matter in water undergoing purification resulted in publication of two journal manuscripts, 5 extended conference abstracts, and 6 conference presentations.

Katy Swancutt (Biology major) continued her research on the free radical chemistry of platinum-containing anti-cancer drugs, and also started two new research projects. She received the inaugural undergraduate research scholarship personal donation from Ken Ishida to help support her work, and was also able to get one paper published in a peer-reviewed journal, three extended conference abstracts, and 5 conference presentations including an oral presentation at the American Chemical Society meeting in Philadelphia in August.

Michelle Dail received the Californian Target Specialty Products Inc. scholarship, a CSULB Women and Philanthropy award, and a 2008 Provost’s Summer Stipend to support her research efforts on elucidating the hydroxyl radical oxidation chemistry of β-lactam antibiotics under various conditions. Her work was presented at three conferences, including one oral presentation by herself also at the American Chemical Society meeting in Philadelphia this past August.

(Continued on page 4)
This has been another highly successful year of research and scholarships for students in the Physics Department. Three CSULB physics students, Samuel Pottish, Brendon Villegas, and Benjamin Carter presented their work at the Annual meeting of the American Physics Society (APS) held in October at CSU Dominguez Hills.

Samuel Pottish presented the results of his research completed at the Mineral Physics Institute Summer Scholars Program (REU) this past summer at Stony Brook University, New York, Potassium Carbonate (K2CO3) Fusion Curve Re-examined: New Experiments at 5GPa, (Dr. Beoshang Li – Stony Brook faculty advisor). He also presented at the December Meeting of the American Geophysical Union in San Francisco. In addition to support provided by his participation in summer research, Samuel was one of two Physics students to receive the Philip Ord Johnson Scholarship, which is awarded to CSULB graduate or undergraduate men and women who have demonstrated academic achievement in physics and mathematics. At CSULB, Samuel works with Chuhee Kwon in her lab.

Brendon Villegas presented The Optimization and Characterization of Magnesium Diboride Thin Films (Dr. Jiyeong Gu - faculty advisor, Physics and Astronomy). Brendon was one of the three Physics students who received the 2008 Provost’s Summer Stipend Award for collaborations with faculty mentors.

The third CSULB presentation at the APS Annual Meeting was made by Benjamin Carter, working independently, he presented Helicoseir Perturbation Theory.

Two other physics students were also recipients of the 2008 Provost’s Summer Stipend Award: Heather Stirewalt, undergraduate, was awarded the stipend to work with Dr. Alfred Leung, and Arnulfio Gonzalez, graduate student, conducted research with Dr. Christian Bracher.

Other scholarships won by physics students include Jorge Medina, a junior Physics Major who was awarded the 2008-2009 American Physical Society Scholarship for Minority Undergraduate Physics Majors, a $2000 award. This is a nationally competitive scholarship. He also received one of two Richard and Florence Scalettar Scholarships, which are awarded to CSULB undergraduate men and women of exceptional academic achievement in physics and mathematics. The scholarships provide $1,000 annually, and honor the memories of California State Long Beach Physics Professor Richard Scalettar and his wife, mathematics teacher, Florence Scalettar. A second Scalettar Scholarship was won by Joanna Dokas, a senior Physics major. The highly competitive Osher Re-entry Scholarship was awarded to David Thomas, a Physics minor with a major in Computer Engineering.

Jesse Burgess was the second CSULB 2008 recipient of the Philip Ord Johnson Scholarship for academic achievement in physics, and Ariel Amberden was recognized for her academic achievement while working to support her education with the John and Terry Milligan Scholarship, a scholarship started by John and his wife, mathematics teacher, Florence Milligan. A second Scalettar Scholarship was won by Joanna Dokas, a senior Physics major. The highly competitive Osher Re-entry Scholarship was awarded to David Thomas, a Physics minor with a major in Computer Engineering.

In their spare time, Chung-min and Joshua like ballroom dancing, cooking, hiking, biking and non-competitive Frisbee. Since they moved to Long Beach, they have been enjoying the culinary variety of Los Angeles. During summer and winter breaks, they often travel to Taiwan and Wisconsin to visit their families. When in Taiwan, they like to visit national parks and enjoy all kinds of delicious food. In the United States, they like traveling to New England, northern California and the national parks. Chung-min also likes the Midwest for its distinctive seasons and for the reason that it is her ‘home town’ in the U.S. Joshua will do postdoctoral work in Iceland next year. While they will miss each other, Chung-min is also excited about the opportunity to visit Iceland!

Edsel Abud was awarded a CSULB Women and Philanthropy scholarship, supporting his studies of mixed alkyl/aryl nitrosamine species in water. He also had four conference presentations this year, notably an oral presentation at the ABRCMS Orlando meeting which he attended with another one of my students, Tim Feliciano. These two students had their research with me supported by MARC and RISE funding, respectively.
This fall was an incredibly busy semester for us in the SAS Center, as we worked with the increased student population that has been seen all over campus. Most of our programs saw a rise in student participation. In addition to providing a regular study space for students in our center, our staff advised approximately 450 freshmen in our freshman mandatory advising workshops; this is up from the previous year’s total of 375. This number includes both declared majors, as well as students intending to change to CNSM majors. We have witnessed a 250% increase in the use of peer tutoring from last fall to this fall. We have also seen a participation increase at the various events we sponsor, including our most recent: the Holiday Potluck Mixer on December 5. Approximately 50 students, staff, and faculty attended. Highlighted here are the three winners of our Holiday Mixer Gingerbread House Speed-Decorating contest: Janet, Nadilah, and Martha.

Winners of the 2008 Gingerbread House Speed-Decorating contest: Janet, Nadilah, and Martha.

James L. Jensen
SAS Center
(Student Access to Science)

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Amy Edmundson* (MS, Science Education - Elementary Option, 2006) is an invited panelist at the National Association of Research in Science Teaching conference. She and her colleagues will be discussing their successes with a California Math/Science Partnership grant.

Tonya Mandl* (MS, Science Education - Elementary Option, 2008) helped write a successful $1.725 M grant for LAUSD schools from California Instructional School Garden Program, AB1535 grant. She coordinates the program. She is also the founder and chair of the California School Garden Network, LA chapter.

Padmini Kishore* (MS, Science Education - Secondary Option, 2008) was invited to present findings from her thesis and the impact of her A+ BP Energy grant project at the Green California Schools Summit in Anaheim, December 2008.

The SAS Center
Highlights Student Involvement

Annual Biomedical Research Conference for Minority Students (ABRCMS), Continued

Annual Blumenstadt House Speed-Decorating contest: Janet, Nadilah, and Martha.

Highlighting here are the three winners of our Holiday Mixer Gingerbread House Speed-Decorating contest: Janet, Nadilah, and Martha. The SAS Center thanks all the staff and faculty who supported us this semester with their referrals, suggestions, and participation in our various events and programs.

(Continued from page 1)

Scientific poster presentations and 80 oral presentations. A total of 156 awards were made for 10 different research interest areas. CSULB received 2 (or 1.5%) of the 136 awards for outstanding posters and 1 (or 5%) of 20 awards for outstanding oral presentations.

In all, 11 CSULB students and two Community college student participants from this past summer’s Bridges to the Baccalaureate program presented faculty-mentored research at ABRCMS. The presentations were sharp, polished, and well received. The papers and posters presented are listed with the inclusion of the faculty mentor (all papers were peer reviewed):

Marc Quijano – “The Relationship between Tectonic Plate Activity and Genetic Variability in the Western Fence Lizard, Sceloporus occidentalis” (Dr. James Archie – faculty research adviser, Biological Sciences). Received recognition as Outstanding in the Molecular Biological Sciences by the ABRCMS Conference.

Christian Aguilera – “ENV6, a Constitutively Expressed Yeast Gene Involved in Vacuolar Functions” (Dr. Editte Gharakhanian – faculty research adviser, Biological Sciences). Received recognition as Outstanding in the Molecular Biological Sciences by the ABRCMS Conference.

Theresa Austria – “Agycolylated Antimannan Antibody M11g1 has a Reduced Ability to Mediate Complement Activation and Phagocytosis” (Dr. Mason Zhang – faculty research adviser, Biological Sciences). Received recognition as Outstanding in the Molecular Biological Sciences by the ABRCMS Conference.

Edsel Abud – “Radical Chemistry of Aliphatic/Aromatic Nitrosamines in Water as Model Compounds for Tobacco-Specific Carcinogens” (Dr. Stephen Mezyk – faculty research adviser, Chemistry and Biochemistry).

Timothy Feliciano – “Free Radical Chemistry of Anesthetics in Water: Investigating the Toxicity of Degradation Products” (Dr. Stephen Mezyk – faculty research adviser, Chemistry and Biochemistry).

Meredith Flores, Stephan Meister, and Selina Bopp – “Knockout of Essential Liver Stage P. yoelli Genes” (Dr. Elizabeth Winzeler – faculty research adviser, The Scripps Research Laboratory).

Tami Gonzalez, Jesus Reyes, and Mark Drawbridge – “Stress-induced Alterations in Plasma Cortisol Concentrations in an Economically Important Vertebrate Model System” (Dr. Kevin Kelley – faculty research adviser, Biological Sciences).

Maria Rios (Cerritos College) – “Patterns of Genetic Differentiation among Mountaintop Populations of Western Fence Lizard (Sceloporus occidentalis) Do Not Support a Post-Pleistocene Range Expansion” (Dr. James Archie – faculty research adviser, Biological Sciences).

(Continued on page 6)
The College and the University are pleased to recognize academic achievement by its students on an ongoing basis through the honor of being named to the President's List or the Dean's List each semester. The requirements to be included in the list are not only grade point average, but total unit load (12 units) for the semester, or a cumulative 12 units earned for the academic year for inclusion in the Spring Lists. The President’s List honors students earning a GPA of 3.75–4.0; the Dean’s List honors students earning 3.5–3.74. It is especially noteworthy that more CNSM majors are honored on the President’s List than the Dean’s List. Congratulations to the following President’s List and Dean’s List Students from the Spring 2008 semester.

### President’s List

- **Biology BS** Aira Aguas, Temitope Ajagbe, Andrea Balogh, Dean Bui, Anastasia Carbon, Devin Caster, Rochelle Chua, Ngo-Khanh Cong Nguyen, Angela Dickens, Sergio Duenas, Erik Duque, Loreto Escobar, Jordan Fuller, Courtney Gagnon, Hector Gomez, Kimberly Helm, Marissa Hernandez, Leah Hough, Tien Huynh, Sarah Kim, Leean Korprapun, Anh La, Delayn Landrum, Kelly Laughlin-Sloss, Erin Liang, Daisy Linares, Juan Maciel, Myrna Makari, Chelsea McKinley, Johannes Meyen, Bryan Nguyen, Julie Nguyen, Kimberly Nguyen, Michelle Nguyen, Carh Roger Pham, Ravath Pun, Samantha Rhine, Kimberly Rickman, Leahn Sloan, Bucky Solomon, Saori Taniguchi, Christina Thabit, Martin Vignovich, Ryan Welsh, Cassandra Wright, Chamrouen Yann, Sikeat Yip, Karen Yu
- **Biology – Education BS** Charlene Apelo, Nichole Pimentel, **Biology – Botany BS** Katherine Gallagher
- **Biology – Cell & Molecular BS** Ilva Cabrera, Michelle Dail, Geraldine Duru, Lori Glenwinkel, Dean Huynh, Melanie McConnell, Daniel Olson, Brent Wilkinson, Daniel Woods
- **Biology – Ecology BS** Amanda Berkey
- **Biology – Physiology BS** Justin Arndt, Christine Castro, Blair Chang, Diana De Dios, Jason Farrow, Danielle Flores, Kelly Gibson, Erica Grados, Heather Hopkins, Zhujan Jiang, Ryan Kemp, Joanne Liu, Pietman Mansoulian, David Milikken, John Narvaez, Andrew Newman, Christine Nguyen, Leigh Ann Oberjuerge, Duc Pham, Daniel Phillips, Johana Rodriguez, Karim Sabeh
- **Biology – Zoology BS** Yhooa Barrera, Maria Garcia, Leslie Healis, Christine Johnson, Marty Lewis, Bradford Madrigal, Monica Royer, Matthew Schliebe
- **Biology – Marine BS** Wade Asup, Cheryl Bube, Dwight Ceykess, Jennifer Groom, Brittanney Soto, Lauren Shiosaka, Katherine Tanaka, Samantha Zacarías
- **Microbiology BS** Edsel Abud, Christian Aguillera-Sandoval, Jason Alvarez, Vandana Bhakta, Alison Greenwood, Gerardo Hernandez Jr., Woosung Jung, Sol Ah Kim, Rovie Manuel, Lorraine Noda, Joshua Reish, Marie Rippent, Mitchell Sandberg, Courtney Steinwachs, Michelle Lai Tandoc, Mareya Youssaf
- **Chemistry BS** Tae Hyung Ji, Brittany Maynard, Nicole Rossi
- **Chemistry BS** Jason Barca, Christopher Bruner, Sheri Cheatwood
- **Biochemistry BS** Lester Aboabida, Christine Bradford, Maria Cruz, Devin David, Franciscan Fernandez, Richard Hua, Kimberly Johnston, Brian Kambourieh, Charlie Kong, Junghye Lee, Greer McMichael, Lauren Mitre, Daniel Nguyen, Jimmy Nguyen, Julie Nguyen, Kim Nguyen, Leidy Palomec, Arti Patel, Sarav Patel, Yin Mei Phung, Cesar Reyes, Francisco Rodriguez, Sarah Smith, Jake Sylwianowicz, Quyhn Hoang Tran
- **Geology BS** Michael Arthur, Logan Chinn, Matthew Cochrane, Luke Shafer
- **Mathematics BS** Siti Azlin Abdul Azis, Zachary Buck, Taylor Burlett, Anne Margaret Cawley, Hyo Jin Chung, Matthew Labar, Julie LuVisti, Michael Manola, Alida Migusha, Patara Nimsombat, M. Tip Phaovibul, Bryden Redmon, Maria Rincon, Jubileee Rodriguez, Marbelita Vides
- **Mathematics BS** Adam Au, Michelle Buitkirk, Elvia Franco, Moises Gutierrez, Kristin Haldeman, Krista Katayama, Kailam Lee, Lara Mitchell, Mark Shimani
- **Math- Education BS** Mary Brice, Lindsay Bullock, Brittany Clark, Ryan Morek, Robert Pieper, Lucienger Rodriguez, Holly Roesch, Dima Saikaly, Erika Sanchez, Lindsey Skeldon
- **Math Statistics BS** Alexa Boyer, Joel Londeree, Jason Prull
- **Physics BS** Ariel Amberden, Ryan Economy, Jorge Medina, Matthew Moocarme, Rasmey Phann, David Rave

### Dean’s List

- **Biology BS** Ivan M. Alvarez, Nicholas A. Barnes, Jose L. Camacho, Gainyoon Chao, Tiffany Chu, Malejina C. Cruz, Chelsea K. Franzin, Kristen N. Fuentes, Tiffany F. Garcia, Minh Hoang Ho, Eileen Hok, Daniel H. Kim, Yen Hoang Luu, Thao Phuong Ly, Ayla O. Maranighian-Peter, Kelsey A. McCroskey, Maged M. Mikhail, Catherine K. Nang, Joshua Nettles, Giang Duong Nguyen, Kellie N. Noyes, Eric Junghyuk Oh, Enrique Olozires, Harvey Perez, Amy Quish, Reyna Ray, Marwa M. Riffai, Connie M. Rodriguez, Jeanne M. Tran, Josephine Tran, Sammy Tran, Tom N. Tran, Stephanie A. Valdez, Melissa M. Ven Dang, Nicole Vlassoff, Deborah D. Wickiam, Jessica M. Young
- **Biology-Education BS** Kelcy Casadegno, Cari Dugas, Serrena Tahvidlari, Sammi Venegas, Shelley Weaver
- **Biology Botany BS** Joshua Kerwien, Cyndia Benitez, Thienthu Huynh, Matthew Maland, Gopal Virtlani
- **Biology-Ecology BS** Marc Person
- **Biology-Physiology BS** Joel Ancheta, Shantell Barrios, Janet Doan, Shalesse Gardner, Michelle Hoang, Briite Hunt, Kasey Kagawa, Lisa Kaiser, Lena Kuang, Kevin Lin, Fady Makar, Shane Mandala, Katherine Morales, Lauren Paaske, Johua Parkinson, Muhammad Rafay, Jennifer Rodrigues, Joseph Salcedo, Christopher Slay, Nick Spurlock, Chavalit Tomthong
- **Biology-Zoology BS** Rachel Dominguez, Emily Ferrill, Lisa Howard, Molly Jorge, Carrie Madden, Chloé Matula, Pier-Maria Eloisa Munoz, Katy Swancutt, Marine Biology BS Carrie Adams, Dan Bui, Ashley Conterara, Brenna Del Riego, Michelle Erbe, Courtney Gagnon, Jeanette Hofstee, Te Ma, Michelle Nakamura, Katherine Pan, Alanya Petre, Alina Setz, Laren Smith, Lindsay Sturtevant, Ashley Taylor, Samantha Ursua, Paul Vaccarello
- **Microbiology BS** Juan Caldera, Melodymann Cayabaly, Tahila Dang, Meredith Flores, Nicole List, Kristopher Locken, Jessica Lopez, Matthew Sasaki, Patri Sherwan, Michael Worth
- **Chemistry BA** Cynthia Guerra, Sean Gardner, Michiko Okawara, Michelle Park, Allen Tran
- **Chemistry BS** Wendy Chaising, Joseph Ferraro, Richrissa Giunaia, Jennifer Hewitt, Cleistine Malinskic, Garret Squires, Kelley Vineyard
- **Biochemistry BS** Nabilah Ali, Wendy Beck, Myles Brookman, Silvia Cervantes, Jennifer Choi, Lara Driggers, Jenny Guerro, Jari Graznupan, Panupon Khumsupan, Linda Lam, Hellen Ngo, John Nguyen, Shaun Panmunth, Aarushi Parekh, Melvin Peralta, Ashley Phan, Mitchell Toliver, Tina Tran
- **Geology BS** Jonathan Downie, Courtney Marshall, Alicia Vollmer
- **Mathematics BS** Cheryl Gray, Aubrey McCarthy, Nana Noda, Jeffrey Osterman, Shannon Russell, Timothy Teasley
- **Math- Applied BS** Alyssa Azucenas, Jessica Mejia, Hoang Nguyen, Krista Ohashii
- **Math- Education BS** Courtney Alexander, Chelsea Capobianco, Ryan Chitwood, Mina Do, Marine Karapetyan, Yael Karni, Deisy Lopez, Leana Mari, Claudi Marquez, Alham Najjar, Tuan Nguyen, Carlos Ramirez, Yoshua Sudarso, Phil Tran, Hsin Huang, Jaqeyynn Zeeb
- **Physics BS** John Collbrant, Matt Mitchell

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**ABRCMS, Continued**

(Continued from page 5)

Jessica Ruiz (Long Beach City College) – “Trisericine Lacrine Ligands for Use in Molecular Recognition and Asymmetric Catalysis" (Dr. Eric Martinez – faculty research adviser; Chemistry and Biochemistry).

Thara Sam – “Isolation of Sexspecific DNA Fragments in the Side-blotched Lizard (Uta stansburiana) using Amplified Fragment Length Polymorphism” (Dr. James Archie – faculty research adviser, Biological Sciences)

Brenda Velis – “Confirming Microarray Expression Data for Chloroplast Proteases using Real Time PCR” (Dr. Judith Brusslan – faculty research adviser, Biological Sciences).