



CALIFORNIA STATE UNIVERSITY, SAN BERNARDINO

# THE NATURAL PHENOMENA

SUMMER 2012



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# CNS WELCOMES NEW DEAN



Kirsten Fleming, Dean of the College of Natural Sciences

I am very excited to assume the position of dean of the College of Natural Sciences at CSUSB. I was attracted to this position for several reasons. The student body is diverse with a large proportion being first generation university students. The goal of providing access and the opportunity to succeed to students from varied backgrounds and fostering their educational achievement is particularly rewarding. In addition, the STEM and health-related disciplines are areas in which there is a high demand for graduates. Meeting these goals and demands comes with challenges, while at the same time it provides exciting opportunities to serve the needs of the

community and the region.

During my first couple of weeks as dean, I have had a chance to meet many faculty members, staff and students and to explore some of the impressive facilities. Through time spent with the department chairs, I have learned about the dedication of the faculty to student learning. This is evident by the significant time faculty members devote to advising students and the extensive inclusion of undergraduate students in research projects. I had the opportunity to attend a poster session of the National Science Foundation funded project titled "PRISM: CSUSB Strengthening the Scientific Workforce." Undergraduate students from across the STEM disciplines presented the results of their research. The students were excited by their experiences and discussed their work knowledgeably, enthusiastically, and with great poise.

Among the facilities I visited was the new Nursing Skills Lab. This state-of-the-art lab, which will open this fall, will enhance the preparation of future nurses by providing training in a simulated but highly realistic environment. The technology in the lab will be used for different "real life" medical scenarios to be enacted at each of the 10 beds that will allow students to work on a range of skills and medical problems.

From my interactions, the staff members in the dean's office are committed to providing high quality service to the college constituents. While budget challenges continue to jeopardize student access to an affordable education and the ability of academia to offer a high-quality education, there is much to celebrate in the College of Natural Sciences. I look forward to working with all in the college, the university community, and the broader community to provide outstanding education, build on existing strengths, and identify new areas in which CNS can excel.

My best wishes for a happy and healthy year,

Kirsty Fleming

Dean, College of Natural Sciences



# CNS PEER ADVISING CENTER

The College of Natural Sciences Peer Advising Center is a "one stop shop" for students majoring in disciplines within our college. A wide-range of valuable services are offered to these undergraduate students. Knowledgeable peer advisors can provide one-on-one academic advising based not only on academic, but also on personal experiences. In addition, the peer advisors assist students with course scheduling, career paths, planning quarterly programs of study, obtaining information about CSUSB resources and procedures, such as selecting a major, adding and/or dropping classes, withdrawing after the census date, connecting with faculty for supplemental advising, and simply assisting students to be successful while attending CSUSB. Peer advisors work closely with Erika Hernandez, the center's coordinator, to identify students who may need extra assistance beyond the peer advisors' knowledge. We are located in the Health and PE Complex, Room 235, and during the academic year our regular office hours are Monday through Friday, 8am to 5pm. Feel free to stop by or you may contact us at (909) 537-7627 or [peeradvising@csusb.edu](mailto:peeradvising@csusb.edu).



# DEPARTMENT ACCOMPLISHMENTS

## Department of Biology

The Department of Biology continues to grow, with more than 800 undergraduate and graduate majors. Biology faculty have been very successful in securing funding for a wide variety of research and training projects. Drs. Nicole Bournias-Vardiabasis and Jeff Thompson were awarded a \$1.14 million grant from the California Center for Regenerative Medicine to train undergraduate and graduate students in stem cell research. This year six students are conducting research in leading labs, and the newly formed Student Society for Stem Cell Research and the Department of Biology hosted the inaugural Stem Cell Symposium. Dr. Dave Polcyn received a \$996,000 U.S. Department of Education grant to further science education, and is working with K-6 in the Coachella Valley. Graduate and undergraduate students have remained busy conducting research in a number of faculty research projects, and routinely present the results of their research at professional meetings. Students have also been successful in being accepted to graduate programs around the country, as well as acceptance to numerous medical, dental, veterinary and pharmaceutical schools. We encourage all of the biology alumni to keep in contact with us by contacting Dr. Polcyn at [dpolcyn@csusb.edu](mailto:dpolcyn@csusb.edu). Let us know where you are and what you are currently doing!

## Department of Chemistry and Biochemistry

The Department of Chemistry and Biochemistry welcomed a new faculty member this year, Dr. Renwu Zhang. Dr. Zhang joins us from Southern Utah University and specializes in physical chemistry. His research is on the pore structure of polymeric materials using positron annihilation spectroscopy. He has already published two papers, one with two CSUSB undergraduates, Jessica Robles and Jiwoong Kang in the journal *Macromolecules*. Dr. Kimberley Cousins continues to mentor students and serve as a PI for a highly successful NSF grant for Mathematics and Science Scholars (MASS), which was recommended for further funding this year with several colleagues in the college. Along with Dr. Doug Smith and principal investigator Tim Usher (Department of Physics), a research grant from the U.S. Department of Defense was awarded to study piezoelectric/ferroelectric materials. Dr. Yu-Jung Kim was promoted to associate professor with tenure, authoring or co-authoring three papers. Two of these are of her work with transposable DNA elements in *Drosophila melanogaster* and other organisms. The department has a new chair, Dr. Brett Stanley, who recently published a paper in *Water Environment Research*, regarding the analytical chemistry of cyanide in wastewater with Karen Antonio, who graduated last year and has been awarded an NSF fellowship at Notre Dame University. Several very successful undergraduates will be moving on to graduate Ph.D. pro-

grams in the fall of 2012, including Li Wang (New York University), Kathleen Elison (City of Hope), Ashley Vizenor (UC Riverside) and Scott Ugrin (U. of Virginia). The graduating class of 2012 was exceptional. Ms. Wang was selected as the outstanding undergraduate student for the College of Natural Sciences and 10 students from this class were awarded university honors, high honors or highest honors.

## School of Computer Science and Engineering

The School of Computer Science and Engineering completed another successful year. In October 2011, CSE hosted its annual Open House; more than 250 students and teachers from local high schools attended. In winter 2012, Dr. Haiyan Qiao and her student team presented their work on the Yeti Vision Project to President Karnig, Garner Holt of Garner Holt Productions and others. Attendees witnessed the learning and face tracking capabilities of an animatronic figure. CSE's annual Industry Advisory Board meeting took place in June 2012, thus strengthening mutually beneficial ties with local companies and the city of San Bernardino. Dr. Keith Schubert is a member in a team of researchers from Loma Linda University Medical Center and UC Santa Cruz who have received \$2 million funding from NIH. Drs. Art Concepcion, David Turner and students continued developing and refining the iCoyote Mobile App for the CSUSB campus. Dr. Voigt, director of CSE, led a panel discussion of CSE and other CSUSB Alumni as part of the Science Networking and Recruiting Forum by Coyote Careers. B.S. recipient Kenneth Williams presented his research to members of Congress at the 2012 Posters on the Hill in Washington, D.C. Finally, congratulations to Dr. Qiao, who was awarded early tenure and promotion to associate professor.

## Department of Health Science and Human Ecology

The Department of Health Science and Human Ecology offers undergraduate concentrations in public health education, nutrition and food sciences, healthcare management, and environmental health, as well as the master of science in health services administration (MSHSA) and master of public health (MPH). Dr. Lal Mian received the Meritorious Service Award, primarily for his contributions as editor of the professional journal of the American Mosquito Control Association. Dr. Bob Phalen and his father (also Dr. Robert Phalen) published *Introduction to Air Pollution Science: A Public Health Perspective*. He, along with Dr. Chris Lindfelt and Dr. Marsha Greer, continued their work on minority health and health disparities under the auspices of the Research

Infrastructure for Minority Institutions (RIMI). Dr. Ted Coleman remains on the faculty at Hochschule Fulda International Summer University (ISU) in Fulda, Germany and recently received the Miguel García-Tuñón Award in Human Dignity from the American College Health Association (ACHA).

## Department of Nursing

The Department of Nursing had an exciting 2011-2012 year. An outstanding achievement was receiving a five year accreditation from the Commission on Collegiate Nursing Education. In addition to accreditation, under the direction of Dr. Jean Nix, a new and exciting RN-BSN program was approved that incorporates healthcare reform as a centerpiece of the curriculum. The Department of Nursing entered into a new partnership with Redlands Community Hospital to provide an onsite facility for the new RN-BSN program, which begins in the fall 2012. Continuing with our global healthcare focus, several students and faculty traveled to Korea, India and Sweden. The Palm Desert Campus program continues to contribute to the health of the Coachella Valley through innovative partnerships with the three hospitals. The Department of Nursing was also the first program in the state to comply with the recently enacted AB1295, which provides a streamlined process for nurses with an associate's degree to enter into the RN-BSN program.

## Department of Physics

Most of the big news this year has revolved around the Murillo Family Observatory. Under the directorship of Dr. Laura Woodney, with the help of Paul Gardner, Maureen Murphy and the Society of Physics Students, the observatory opened this year. A series of grand-opening events were held. By all accounts, they were a rousing success. In part for her efforts in this regard, Dr. Woodney earned the 2012 faculty service award for the College of Natural Sciences, a well-deserved honor. Alumni are encouraged to keep in touch. Feel free to pop in any time, e-mail Dr. Dixon at [pdixon@csusb.edu](mailto:pdixon@csusb.edu), or contact your favorite professor directly (for addresses check out our website: [physics.csusb.edu](http://physics.csusb.edu)).





# THE NATURAL PHENOMENA

## THE DEPARTMENT OF GEOLOGICAL SCIENCES



Department Chair:  
Alan Smith

Professors:  
Joan Fryxell  
Sally McGill  
Erik Melchiorre

Associate Professors:  
Britt Leatham

Department Office:  
Christina Palmer

Britt Leatham, hired 1987; Jim Mehegan, hired 1988, Joan Fryxell, hired 1989. Earth Science Program. G.E. courses only offered. In 1989, the Bulletin states that "the University is planning to implement a B.S. degree program in geology in the near future." The following year, course offerings are expanded to 10, including upper division courses.

**1991-1992 The program becomes a department, offering a B.S. in geology.** Sally McGill hired. Twenty three courses offered.

1992: Louis Fernández (dean) hired, and Bonnie Brunkhorst (joint with education) joined the department. 1994: First bachelor of science in geology awarded. 1995: Course offerings grow to 28. Three more B.S. in geology degrees awarded. 1995: Louis Fernández promoted to provost and vice president. Course offerings expanded to 31. 1996: Teaching credential program geoscience emphasis, and minor in geology are added. Courses offered grow to 28. 1998: B.A. in Geology, and Departmental

Honors added. 2000: Jim Mehegan resigns (went to Riverside Community College), and Alan Smith is hired; B.S. in geology split to include the geology option and the environmental geology option. Course offerings grow to 38. Graduates total 34. 2002: Erik Melchiorre hired. Graduates total 46. 2004: Geology enrollment reaches 100 full-time equivalent students. Graduates total 55. Jim Mehegan passes away. 2005: Master of science in environmental sciences (MSES) receives approval for five year pilot program. 2006: First graduate students admitted into MSES program. Course offerings expanded to include advanced geologic mapping and undergraduate geological research. Alan Smith wins the CSU-wide Wang Award in Science, Math and Engineering. 2007: Bachelor's graduates total 72, and increase to 86 by 2009. 2010: Geology Advisory Board created. MSES program modified to include the professional science master's option and the geology option, and the name is changed to the master of science

in earth and environmental sciences (MSEES) program. Bachelor's graduates total 99. 2011: MSEES program receives final approval from Chancellor's Office and is now a permanent program.

2012: First MSEES geology students graduate. Bachelor's graduates total 110.

Presently, the department includes five full-time faculty, six to eight part-time faculty and a full-time secretary. We have three teaching labs, five student research labs, a rock preparation building and three suburbs, in addition to an expanding complement of microscopes and analytical instruments. We have certainly come a long way from our early days in the basement, borrowing secretarial help, and sharing lab space with other departments.

## THE DEPARTMENT OF KINESIOLOGY



Department Chair:  
Terry Rizzo

Professors:  
B. Robert Carlson, Dean Emeritus  
Chris Grenfell  
Bryan Haddock  
Greg Price  
Cliff Singh  
Hosung So

Associate Professors:  
Aaron Moffett  
Hyun-Kyoung Oh  
Shannon Siegel

Assistant Professors:  
Pablo Costa

Department Office:  
Leslie Morse  
Kristyn Marshall

Our department continues to experience unprecedented change and growth. We have three concentrations with approximately 600 majors.

Kinesiology faculty now conducts research on the range of human abilities from gifted athletes to individuals with disabilities, with content areas including, but not limited to, psychology, sociology, teaching effectiveness, human physiology, and biomechanics as they relates to physical activity, sport and exercise. Our undergraduate kinesiology major is growing so rapidly the CSU "impacted" our pre-professional physical therapy concentration. The human performance laboratory was awarded additional equipment for teaching and student research. Our laboratory is on par with the best research universities in the United States.

The recent addition of Dr. Pablo Costa, an exercise scientist with excellent teaching and research skills, joined our faculty this past

September 2011. We expect significant contributions from this bright scholar. The kinesiology faculty members have positioned the department as a leader in California and the Western United States with their teaching, research, and service. CSUSB kinesiology has also established an international reputation for scholarship in the area of physical activity and individuals with disabilities. Moreover, we are beginning to establish a national reputation in exercise science associated with physical activity and obesity. We are building our reputation with collaborative research endeavors that includes undergraduate students. Last year Dr. Terry Rizzo finished his term as editor of the *Adapted Physical Activity Quarterly*. He is proud to represent the discipline as a member of the Board of Directors of the *American Kinesiology Association*. Dr. Bryan Haddock continues to secure externally funded grants than now amount to more than \$5 million dollars. Last fall, Dr. Aaron Moffett directed the 5<sup>th</sup> Annual DisAbility Sports Festival. This event serves more than 700 individ-

uals with disabilities in our community. Dr. Hyun-Kyoung Oh served as the statewide chair of the State Council of Adapted Physical Education (SCAPE) and Dr. Shannon Siegel presented her research at international, regional and state-wide professional meetings.

As a department, we remain committed to the involvement of our students with our teaching research and service. To move our program forward requires resources. As you well know we are experiencing extremely difficult times here at CSUSB. Nonetheless, we have remained committed to excellence. That notwithstanding, we need your support. Please try to help us meet our commitment to making CSUSB kinesiology an outstanding program. Help by making a gift to **CSUSB Department of Kinesiology Alumni Fund** so that we can continue our quest of becoming a leading program in the western United States. Your support is the life-blood of our program.

# THE DEPARTMENT OF MATHEMATICS



**Department Chair:**  
Peter Williams

**Professors:**

Susan Addington	Joe Chavez
Hajrudin Fejzic	Davida Fischman
Chris Freiling	Gary Griffing
Ilseop Han	Zahid Hasan
Yuichiro Kakiyara	James Okon
Shawn McMurrin	Chetan Prakash
Dan Rinne	John Sarli
Charles Stanton	Rolland Trapp
Belisario Ventura	J. Paul Vicknair
Laura Wallace	Wenxiang Wang

**Associate Professors:**

Corey Dunn	Nadia Dyakevich
Madeleine Jetter	Min-Lin Lo

**Assistant Professors:**

Su Liang	Giovanna Lloset
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**Department Office:**

Nancy Pennington	Donna Murphy
Leanne Hartson	

The mathematics department has had a productive year. We began a new program, our certificate in introductory mathematics. A student completing this program will allow them to apply for the Subject Matter Authorization: Introductory Mathematics for teaching the content matter up through ninth grade mathematics.

We have had a number of individual faculty who have also been quite busy with publications. Dr. Yuichiro Kakiyara has two new recently accepted publications, Dr. Hajrudin Fejzic has one recently accepted publication, Dr. Su Liang has published one paper and one book, and Dr. John Sarli has one publication as well. There are a number of submitted works as well from other faculty members, including Drs. Gary Griffing, Corey Dunn and Davida Fischman.

We have also had a number of different faculty present their work recently. Dr. Nadia Dyakevich presented to the 4<sup>th</sup> Annual Women in Mathematics in Southern California Symposium. Dr. Liang

presented at the 5<sup>th</sup> Annual International Conference on Mathematics & Education. Dr. Dunn recently gave a colloquium talk at the U.S. Naval Academy.

The department also has a number of faculty who have worked hard to secure grants and have been participating in other activities. Dr. Sarli continues to direct the Mathematics Diagnostic Testing Project and now serves more of San Bernardino county. Dr. Dunn and Dr. Rolie Trapp secured grant funding to continue their very successful Research Experience for Undergraduates program for another 3 years. This funding comes jointly from the NSF and CSUSB and totals over \$400,000. Dr. Trapp has additionally received an NSF grant for his PRISM program as well. The department chair, Dr. Peter Williams, along with Dr. Joseph Chavez and Joyce Ahlgren are principle investigators on a three-year U.S. Department of Defense award (in conjunction with faculty at UCLA and USC) of over \$520,000, titled "Using game

play to diagnose and remediate students' misconceptions in solving equations." Dr. Fischman has been especially busy with grant work. She received state and NCLB funds to continue her very successful Inland Counties Mathematics Project for another 3 years, with \$67,000 awarded for the first year. She also extended her STIR grant for another 6 months with a \$43,000 CPEC grant. She expanded the number of Noyce Teaching Fellows to 15 as part of her six-year \$1.4 million Noyce grant; she also expanded the number of districts the Noyce program interacts with. She also obtained \$53,000 to conduct a Lesson Study Conference in a partnership with Arroyo Valley High School that included 80 teachers, administrators, coaches, and faculty in attendance. In addition, she facilitated 17 lesson study teams throughout the Inland Empire.

We in the math department look forward to another productive year!

## DEVELOPMENT CORNER

It's been a successful year of development for the College of Natural Sciences. The director of development position for the College of Natural Sciences was filled in September. Although these are challenging times, due to the continuing economic downturn, many people continue to support our students and projects. These are some of the highlights we can all be proud of:

### Scholarships

A struggling economy has left college students and their families wondering how to pay for a college education. The university's financial aid resources are being stretched as never before. Our college continues to get scholarship support, and often that support is from faculty who well understand the need and the difference their donations make.

### Nursing Lab

The new Nursing Learning Lab opened for use in spring 2012 with help from a community partner. This 10-bed lab features 30 computer stations for student learning, four large flat panel TVs to project faculty presentations and 10 bedside flat screens to facilitate student learning. Kaiser Permanente generously donated \$100,000 to the nursing lab.

### DisAbility Sports Festival

The one-day event, originally launched in 2007, promotes physical activity and sports

for people with disabilities of all ages. Over 800 athletes from California and several other states are expected to participate this year, including many wounded warrior veterans. Molina Health Care has once again signed on to be the key sponsor. The CNS Development office is proud to announce that this year the San Manuel Band of Mission Indians also became a major sponsor.

### Water Resources Institute

Water archives, the aerial photograph digitalization project in particular, has been of interest to donors, students, and the community. We were proud to receive support from the City of San Bernardino Water Department to dedicate an archive room in the honor of Bernard Kersey. The Pinky and Joe Brier Foundation also came in to support the aerial photograph collection.

### The Murillo Family Observatory

The observatory was opened this year and a donor dedication was held in November 2011. Several public viewing night opportunities have been available. This is considered the only teaching observatory in the Inland Empire. We should all take pride in this monumental accomplishment that will enhance educational experience, strengthen the science curriculum and facilitate research. This would not have been possible without the numerous donors who were pas-

sionate about this project including: the Murillo family, the W. M. Keck Foundation, the Weingart Foundation and the Evelyn Magnuson Estate. Many of our present and retired faculty also generously supported this project, and we are truly grateful.

As we look forward to things to come in the next year, scholarships will still be a high priority to seek funding for. New projects such as the CNS museum, laboratories in pedagogy and biometrics, and many others are all on the radar. Continued support for the observatory and future plans of a planetarium are on the wish list as well.

We are appreciative for all of our community partners, staff, faculty and friends that continue to support the College of Natural Sciences. Together we can make the College of Natural Sciences stronger and support our faculty and students.

Thank you,

Linda Hunt  
Director of Development  
College of Natural Sciences

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Mrs. Maureen E. Devlin-Murphy  
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Mrs. Rachelle L. Delmonico  
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Mrs. Rebeca Aguilar  
Mrs. Rhonda S. Waidmann  
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Mrs. Sandy Garza  
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Mrs. Stella Gabriel  
Mrs. Susan B. Waggoner  
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Mrs. Taline Georgiou  
Mrs. Teresa Q. Brecht  
Mrs. Tracy L. Lech  
Mrs. Ursula Simonoski  
Mrs. Veronica R. McGilvery  
Mrs. Vicki Carlson  
Mrs. Wanda Skipper  
Ms. Alejandra Miramontes  
Ms. Alicia Cortes  
Ms. Allison Mader  
Ms. Angela Garcia  
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Ms. Anne Molino  
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Ms. Betteanne E. Burchell  
Ms. Brenda J. Peppard  
Ms. Brianne Meredith  
Ms. Carmen Estrada  
Ms. Cecilia A. Callicott  
Ms. Cheryl Di Pretoro  
Ms. Chrisanta Austin  
Ms. Christina M. Anderson  
Ms. Courtney G. Darden  
Ms. Cynthia M. Proels  
Ms. Cynthia M. Swift  
Ms. Debbie A. Kunath  
Ms. Debbie Zank  
Ms. Diane Hoffman  
Ms. Donna C. Fischbach  
Ms. Donna Call  
Ms. Doreen Thornes  
Ms. Dorothea M. Cartwright  
Ms. Eileen S. Lemmon  
Ms. Elizabeth Junker  
Ms. Esmirna J. Nolasco  
Ms. Evangeline F. Preciado  
Ms. Fernellyn J. Brown  
Ms. Gina M. Denny  
Ms. Heidi L. Schlitt  
Ms. Irene Carrasco

Ms. Jeanette Howard  
Ms. Jo Ann Covic  
Ms. Jolyne Flores  
Ms. Josefina Cardiel  
Ms. Joyce C. Ahlgren  
Ms. Karen L. Gerber  
Ms. Katherine Cedillos  
Ms. Laura L. Paone  
Ms. Leann A. Bactad Pulido  
Ms. LeShay Dorsey  
Ms. Lillian R. Wisegarver  
Ms. Linda R. Carter  
Ms. Linda Saenz  
Ms. Linh T. Phan  
Ms. Lorena Gomez  
Ms. Margaret F. Livingston  
Ms. Margarita Delgrado  
Ms. Maria D. Flores-Becerra  
Ms. Maria Gonzalez  
Ms. Marie Pine  
Ms. Mary A. Grove  
Ms. Mary Odening  
Ms. Mary-Christine G. Ulatan  
Ms. Melina P. Camarena  
Ms. Nancy Martin  
Ms. Natasha N. Hutson  
Ms. Patricia M. Reisch  
Ms. Paula Spencer  
Ms. Ramona L. Cochrane  
Ms. Rosa Carreon  
Ms. Roxie M. Findsen  
Ms. Ruth Chafin  
Ms. Sandia H. Cane  
Ms. Shannon Rowe  
Ms. Sue M. Cheney  
Ms. Susan C. Martin  
Ms. Susan J. McGee-Stehsel  
Ms. Tammy Rones  
Ms. Teresa Dodd-Butera  
Ms. Terri L. Cortez  
Ms. Vicki Bevard  
Ms. Wendy K. LaManna  
Ms. Wendy Ramirez  
Ms. Yanira Martinez  
Ms. Yen-Hsi Chiang  
The Honorable Patrick J. Morris



## COMMENCEMENT 2012

The College of Natural Sciences' commencement ceremony took place on June 17, 2012, at 9 a.m. in the Coussoulis Arena on the CSUSB campus. Before a crowd of their families and friends, more than 340 students received their diplomas. Among those students were several who were singled out for various honors. Each year, the college chooses students it determines to be outstanding, both from the undergraduate and graduate populations. This year, the outstanding graduate students are Laughing Bear Torrez Dulgeroff, from biology; Uzzal Das from computer science and engineering; Kristina Hooper, from health science and human ecology; Kyle Castro, from mathematics and Alexandra Bell from nursing. These students have shown great promise in their chosen fields, and the college is proud to recognize them. The outstanding undergraduate students are Christian Guerrero-Juarez from biology; Li Wang, from chemistry and biochemistry; Chris Glaubig, from computer science and engineering; Lauren Demine, from geology; Medina Sahak, from health science and human ecology; Nicholas Klug, from kinesiology; Alyshea Corsaro, from mathematics; Taylor Baker from nursing; and Yannick Munyakayanza, from physics. These students have worked very hard and richly deserve the honors. Additional students received departmental honors. From the **Department of Biology**: Christian Andrus, Joshua Billings, Terri Granillo, Christian Guerrero-Juarez, Ken Terry; from the **Department of Chemistry and Biochemistry**: Bryan Bennett, Kathleen Elison, Hou Guang, Ashley Vizenor, Li Wang; from the **School of Computer Science and Engineering**: Chris Glaubig, Kenneth Williams; from the **Department of Health Science and Human Ecology**: Megan Aalberts; from the **Department of Kinesiology**: Nathan Arellano, Jeremy Clark, Bryce Holland, Ari Hozman, Nicholas Klug, Stephanie Mora, Nathaniel Nutter, Alexander Pena, Jason Postma, Joseph Rosalez, Jamie Skipper; from the **Department of Mathematics**: Kevin Avey, Michael Kacarab, Michelle Lopez, Aida Noguchi, Nolberto Rezola, Lauren Robinson, Jessica Robles, Michael Shore, Julie Wasiuk, Nhan Zuick; from the **Department of Nursing**: Tracey-Anne Anaciato, Melvonti Anderson, Jill Antolin, Taylor Baker, Shonna Barnes, Erick Barraza-Robles, Courtney Barrett, Megan Berryman, Sue Chang, Christie Chapman, Jennifer Cox, Michael DeGuia, Holly Duitsman, Amanda Elliott, Afia Enin, Larry Fletcher, Krista Flores, Susan Gass, Amber Gilbert, Brittney Greenia, Kaitlin Hartman, Svetlana Hezkiya, Crizelle Ignowski, Chris Johnson, Christine Kang, Esteffany Martin-Vega, Melissa Millard, Amanda Munger, Amal Museitef, Laura Nativo, Megan Nelson, Maria Niemetz, Andrea Preciado, Nicole Rapp, Yesenia Rios, Noelle Ruiz, Jennifer Sanchez, Mary Sanchez, Kelly Schoenfeld, Britany Schweigert, Samantha Serna, Joyce Silva, John Thompson, Stephanie Townsend, Sandra Turshman, Ami Vachhani, Brianna Valdivia, Caren Vanderpool, Christina Vargas, Kimberly Veuleman, Sarah White, Ofelia Young; from the **Department of Physics**: Ronnie Andrawls and Yannick Munyakayanza.



*Pamela Sampson*

### CNS OUTSTANDING ALUMNA

Pam Sampson graduated from CSUSB in 1998 earning a bachelor of science degree in food and nutrition. After completing a dietetic internship at Patton State Hospital, she became a registered dietetic and is a current member of the Academy of Nutrition and Dietetics. Since 2001, Pam has worked as a Public Health Nutritionist for the San Bernardino County Department of Public Health, coordinating healthy eating and active lifestyles programs within the community. Pam has co-chaired several local conferences over the past 10 years and has organized the development of the collaborative worksite wellness toolkit, *Network for a Healthy California for the Desert Sierra Region*. Over the years, Pam has had the pleasure to work with several of CSUSB's interns and students. Pam sends a huge hug to CSUSB student, Joy Obanje. Pam and the love of her life, David, recently celebrated their 35<sup>th</sup> wedding anniversary. She has been blessed with two beautiful daughters, two wonderful son-in-laws and five grandbabies. Pam enjoys moments shared with family and friends and most recently, playing on swing sets.



*Laughing Bear Torrez*

### CNS OUTSTANDING GRADUATE

Laughing Bear Torrez Dulgeroff earned her master's of science in biology with a cumulative GPA of 3.9. She was one of the select students receiving a highly competitive internship through the California Institute of Regenerative Medicine. Laughing Bear's research involved modeling the early changes in gene expression that occur within the developing embryo which result in the differentiation of the germline. Overall, her research contributed to isolating an efficient population of germ cells for in vitro research. She was a founding member of the student society for stem cell research, and currently, she is assisting in the development of the Inland Empire Stem Cell Consortium, which will create bridges between stem cell laboratories at CSUSB, UCR and Loma Linda. In the fall, Laughing Bear will begin her doctoral education at Stanford School of Medicine in the Stem Cell Biology and Regenerative Medicine Ph.D. Program. Laughing Bear believes in the power of stem cells and anticipates the impact they will have on treating degenerative diseases. As she moves forward, she will not forget her mentors and friends at CSUSB.



*Li Wang*

### CNS OUTSTANDING UNDERGRADUATE

Li Wang graduated with a bachelors of science in biochemistry and a cumulative GPA of 3.96. Li's love of nature and science began as a child when her grandfather gave her an encyclopedia that she couldn't set aside. Since then, Li has explored many different fields of science and has become especially interested in neurochemistry, neuropharmacology and neurobiology. Li has completed many research projects, including studying the role of dopamine signaling in the chemosensory avoidance behaviors and the effects of antidepressants on the reward functioning and anxiety levels. Li was recognized as the outstanding general chemistry student in her freshman year, and the outstanding biochemistry student as a junior. Li has also worked with autistic children in the University Center of Developmental Disabilities and volunteered annually for the DisAbility Sports Festival. In addition to her rigorous coursework, Li seized the opportunities to learn painting, sculpting, various Latino dances and swimming. In August, Li will start a Ph.D. in Neuroscience and Physiology at the New York University School of Medicine.



