

The SCIENCE SCENE

California State University, Hayward
College of Science

The Newsletter of the
College of Science
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November, 2004

Biochemistry•Biology•Chemistry•ComputerScience•Engineering•EnvironmentalScience•Geology•HealthSciences•Mathematics•Nursing•Physics•Psychology•Statistics

Geology Summer Field Camp

This summer, the Department of Geological Sciences ran its third Summer Field Camp (GEOL 4820) in southwest Montana. The five week camp is an “excursion of total immersion,” where we are in the field for eight hours/day for six days/week. The purpose of this course is to apply the geologic *skills* students have learned in their undergraduate careers, and apply them to the *art* of geologic field mapping. We do this with paper maps, boots, rock-hammer, backpack, water and lunch. We dodge thunderstorms and rattlesnakes, and learn to be at home and efficient in our outdoor “office.” From our maps we make interpretations of the 3-dimensional structure of the region and its geologic history.

We camp in tents for the entire time and have a well-equipped kitchen with two professional-style stoves. Students take care of camp chores and cooking, and this summer we ate like kings! Each week we move our camp and investigate a new field area in southwest Montana. This summer we also had a chance to visit the two mining ghost towns of Bannack, Montana and Virginia City, Montana. We toured the large limestone Lewis & Clark caverns and had a firsthand look at the producing Golden Sunlight mine open-pit gold mine, and also the historic copper mining city of Butte. We also made it to a couple of geothermal sites (hot springs), which required intensive survey.

Summer Field Camp (GEOL 4820) is the capstone course for Geological Sciences and is a crucial experience for all geology graduates. Here at Cal State Hayward we have a strong tradition of field training, which we are continuing in southwest Montana. This last summer our students and program benefited from this strong tradition with the award of \$5,000 from ChevronTexaco, in San Ramon. This generous award helped support the Field Camp, provided student scholarships and field equipment

- Luther Strayer (Geology)



Welcome Aboard...New Faculty

Dong-Won (Don) Choi was born in Oakland, California, and then moved to South Korea with his parents. There he witnessed first-hand the rapid changes in South Korean society, politics, and economy during the 1980s while enjoying American and British pop music from artists like Chicago, REO Speedwagon, and Duran Duran (which were the highlight of the recent movie “13 going on 30,” and are, to his surprise, considered “oldies” now). He completed his undergraduate degree at Yonsei University, Shinchone, Seoul, Korea. His interest in social psychology was sparked while he was taking a course on the subject at the University of Illinois at Urbana-Champaign as an exchange student. After completing the master’s program in social psychology at Yonsei, he came back to the University of Illinois to study and conduct research on negotiation under the guidance of Dr. Peter Carnevale.

During his doctoral training, he also had a chance to work with Drs. Incheol Choi, Ara Norenzayan, and Cindy Pickett, and expand his research interests into culture, groups, and subjective well-being. His current research interest is in examining the role of cognition, motivation, and culture on interpersonal and group behavior, with a focus on negotiation and interpersonal relations. He is teaching Social Psychology this fall quarter.

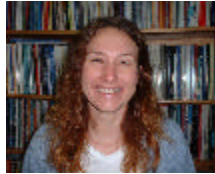
(New Faculty, continued on page 2)



Sarah Frey joins the Mathematics and Computer Science Department this fall as an assistant professor in mathematics. Sarah recently completed her Ph.D. in Applied Mathematics at the University of Arizona. Her research interests include elasticity theory, and solar system dynamics. Dr. Frey's dissertation research focused on modeling planetary tides. These models were applied to the study of the interior of Europa, one of the moons of Jupiter. Europa is the object of much scientific curiosity due to the fact that it is believed to have a liquid ocean and thus possesses an environment conducive to the evolution of life. In addition to her teaching and research, Sarah enjoys playing flag football, kayaking, reading and teaching dance.



Kara Gabriel received her Ph.D. in Biopsychology at the University of British Columbia in June 2000 for work on the behavioral and hormonal effects of prenatal alcohol exposure. After receiving her Ph.D., she worked for a year as a Postdoctoral Research Fellow in the Alcohol and Drug Abuse Research Center at McLean Hospital in Belmont, Massachusetts, where she investigated cocaine-reinforced behavior in dopamine "knockout" mice. Most recently, she conducted research at Oregon Health & Science University in Portland, Oregon that focused on maternal environmental effects on alcohol responses in adult mice and the effects of different drugs in models of alcohol reinforcement (e.g., conditioned place preference, alcohol drinking). For her work on the possible efficacy of the pharmacotherapy, topiramate, in pre-clinical models of alcohol reinforcement, she won an Enoch Gordis Research Recognition Award at the recent Research Society on Alcoholism conference in Vancouver BC. Here at CSUH, she will continue research on alcohol addiction, focusing on differences between adolescent and adult animals. She also hopes to investigate age differences in the efficacy of pharmacotherapies for depression and anxiety disorders, combining her interests in behavioral genetics, endocrinology, and pharmacology.



On a personal note, she enjoys rock climbing, mountaineering, backpacking, mountain biking and snowboarding. This summer, she spent a sleepless night on a rock ledge with two other climbers at the top of Mt. Torment in the North Cascades, but she also spent peaceful nights in tents on Mt. Shasta, Mt. Hood and numerous other mountains. When not in the mountains, she enjoys reading about adventurers like Shackleton, Captain Cook, and Tim Cahill. Dr. Gabriel commented "My guilty pleasure is watching zombie movies and eating Ben & Jerry's

Cherry Garcia ice cream."

Cherry Garcia ice cream."

Madhavi Gandhi will join the Department of Mathematics and Computer Science in spring quarter of 2005 as an assistant professor in Computer Science. Currently she is working on her dissertation at UC Davis; which she expects to finish in winter 2005. She specializes in databases and information systems with a particular emphasis on data security. Her dissertation work focuses on vulnerability analysis and misuse prevention in database systems. Dr. Gandhi has worked in the software industry for over 10 years before deciding to pursue her interest in teaching and research. She has taught database classes at CSUH and UC Davis. Madhavi is an alumni of CSUH with an M.S. in Computer Science, and also holds a masters degree in Mathematics from the Indian Institute of Technology, Bombay.



Farnaz Ganjeizadeh completed her Ph.D. in Industrial and Systems Engineering from the University of Alabama in Huntsville. She earned her M.S. in Engineering Administration and B.S. in Industrial Engineering and Operations Research from Syracuse University. Her research interests are in the areas the application of simulation output analysis and manufacturing processes improvement.

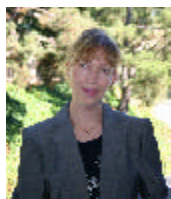


Prior to joining CSUH, Dr. Ganjeizadeh served as a part time faculty member at San Jose State University, where she designed and taught a graduate course in Engineering Analysis. Additionally, she has taught several courses in Industrial Engineering and was a major contributor in several government funded research projects with NASA/MSFC, GenCorp Aerojet, Chrysler and NSF at the University of Alabama in Huntsville.

The Department of Statistics is pleased to welcome **Dr. Jaimyoung (Jaimie) Kwon** as an assistant professor beginning Fall Quarter 2004. Dr. Kwon was born in Seoul, Korea in 1972. He received his Ph.D. in Statistics at UC Berkeley in 2000 for his work on asymptotic statistics and application of statistics to transportation problems. Between 2000 and 2004, he worked as a research engineer at the Institute of Transportation Studies at UC Berkeley, applying statistics to various transportation and wireless communications problems. During that period, he also worked with biologists in the Berkeley Structural Genomics Center on various structural genomics projects, which included, among others, developing an algorithm that can quickly compare three dimensional



structures of thousands of proteins. His research interests include biostatistics and application of statistics to large and complex data from transportation science and bioinformatics. Dr. Kwon is happily married with three children.



Claudia Uhde-Stone earned a Ph.D. in 1998 from the University of Bielefeld, Germany, where she conducted research on nitrogen-fixing symbioses of legumes and *Rhizobium* bacteria. She spent three years as a postdoctoral research fellow and three years as a research associate at the University of

Minnesota, where she was working on the molecular mechanisms that reduce the need for fertilizer in legumes such as soybean and white lupin. This fall Dr. Uhde-Stone has started as assistant professor in the Department of Biological Sciences at CSUH where she teaches courses related to molecular biology and botany. Her research focuses on white lupin's adaptation to phosphorus deficiency.

Jacqueline Willetts has joined the Department of Nursing and Health Sciences as an assistant professor of nursing, specializing in Geriatrics/Gerontology. Jackie has a long history at Cal State Hayward having received an M.S. in Nursing, a Geriatric Nurse Practitioner certificate, and a B.S. in Nursing—all at Cal State Hayward. Jackie has been a Registered Nurse for 15 years working in critical care, homecare, and urgent care services. She is now working on her Ph.D. at U.C.S.F. specializing in Gerontological Nursing, with a focus on sleep deprivation in caregivers of dementia patients. Some of her hobbies are photography, travel, walking, and gardening. She comments that she “is very happy to be here.”



Jack Carter (Math and CS) co-authored an article with Shigekazu Yanagimoto (Fukui University, Japan) and Beverly Ferrucci (Keene State College, New Hampshire), “Using Geometric Drawings To Represent Variations in Deductive Reasoning,” which appeared in the journal, *Pythagoras* (Volume 58, pp. 27-34).

Leann Christianson (Math and CS) and **Kevin Brown** (Math and CS) co-authored an article, “Adaptive Coding Schemes for Support of Multicast Audio to Wireless Devices,” which appeared in the journal *Computer Communications* in October 2004.

Leann Christianson and Kevin Brown co-authored two lab manuals, each accompanying a different textbook. “OPNET Lab Manual to Accompany Business Data Communications,” accompanies the textbook by William Stallings, 5th Edition, Pearson Prentice Hall 2005. The second manual, “OPNET Lab Manual to Accompany Data and Computer Communications,” accompanies the textbook by William Stallings, 5th Edition, Pearson Prentice Hall 2005.

Levent Ertaul (Math and CS) and **Suma Venkatesh** (Math and CS graduate student), co-authored an article “JHide-A Tool Kit for Code Obfuscation,” presented at IAESTED (International Conference on Software Engineering and Applications) in November 2004, at MIT in Cambridge, Massachusetts.

Michael Groziak (Chemistry/Biochemistry) authored a book chapter, “Six-Membered Ring Systems: Diazines and Benzo Derivatives,” published in *Progress in Heterocyclic Chemistry* (Volume 16, 2004).

B.R. Bextine, **C.R Lauzon** (Biology), D. Lampe, **S.E. Potter** (Biology alumna), and T.A. Miller co-authored an article, “Development of a Bacterial Delivery System for the Glassy-Winged Sharpshooter, *Homalodisca Coagulata* Say,” which appeared in the journal *Current Microbiology*, 48:327-331.

- D.C. Robacker, C.R. Lauzon, and X. He co-authored an article, “Volatiles Production and Attractiveness to the Mexican Fruit Fly of *Enterobacter Agglomerans* Isolated from Apple Maggot and Mexican Fruit Flies,” published in the *Journal of Chemical Ecology* 30(7): 1329-1347.

- N. Niyazi, C.R. Lauzon and T.E. Shelly co-authored an article, “The Effect of Probiotic Adult Diet on Fitness Components of Sterile Male Mediterranean Fruit

Publications

Steve Benson (Biology) has co-authored two papers with graduate student **Chris Ho** and collaborators at UC San Francisco, the University of Michigan, and Bethesda Pharmaceuticals. The first paper was published in the journal *Hypertension* volume 43, pages 1-10 (2004) and is entitled, “Identification of Telmisartan as a Unique Angiotensin II Receptor Antagonist with Selective PPAR gamma Modulating Activity.” The second paper was published in the journal *Archives of Dermatological Research* volume 296, pages 97-104 (2004) and is entitled, “Alpha-Lipoic Based PPAR gamma Agonists for Treating Inflammatory Skin Diseases.”

Flies (Diptera: Tephritidae) Under Laboratory and Field Conditions,” which appeared in the *Journal of Economic Entomology* 97(5): 1581-1586

• Dr. Lauzon also authored an article, “Specific Symbiotic Bacteria Likely Key to Mediterranean Fruit Fly Control,” which appeared in the *International Symbiosis Society Newsletter*, Issue 8, Fall 2004.

Susan Penner (Nursing) authored an article, “Controlling Budget Variance,” for the October 2004 issue of the journal *Homes Long Care Management*, 53(10): 86,88.

Bruce Trumbo (Statistics), **Eric Suess** (Statistics) and **Clayton Schupp** (Statistics MS alumnus) co-authored a paper, “Using R to Compute Probabilities of Matching Birthdays.” The paper was presented by Schupp at the Joint Statistics Meetings in Toronto in August 2004. The paper will be published in the 2004 *Proceedings of the American Statistical Association*.

• Bruce Trumbo (Statistics), Eric Suess (Statistics) and **Rebecca Brafman** (Statistics graduate student) co-authored a paper, “Classroom Simulation: Are Variance-Stabilizing Transformations Really Useful?” The paper was presented by Brafman at the Joint Statistics Meetings in Toronto in August 2004. The paper will be published in the 2004 *Proceedings of the American Statistical Association*.

Detlef Warnke (Geology) co-authored a data report, “HIRISC (High-Resolution Integrated Stratigraphy Committee) Pliocene-Pleistocene Interval 0-50 mbst, at ODP Leg 188 Site 1165, Prydz Bay, Antarctica,” which appears in Cooper, A.K. and O’Brien, P.E., (Eds.) *Proc. ODP, Sci. Res.*, 188, 1-38 [Online]. Available from World Wide Web: http://www-odp.tamu.edu/publications/188_SR/VOLUME/CHAPTERS/

Professional Accomplishments

Kimberly Kim (Nursing) served as an expert scientific reviewer on the Health Protection Research Initiative-Investigator Initiated Research Panel on August 11-12, 2004. This scientific review program was sponsored by the U.S. Center for Disease Control and Prevention in Atlanta, Georgia. As a panelist, she reviewed, discussed, and evaluated over 45 applications that were received in response to a Health Protection Research Initiative.

In August 2004, **Jaimyoung Kwon** (Statistics) gave a presentation, “Origin-Destination Matrix Estimation from Partially Observed Packet/Vehicle Trajectories,” co-authored with Pravin Varaiya (UC Berkeley) at the Joint Statistical Meetings in Toronto, Canada.

Istvan Simon (Math and CS) spent three months in China during the summer where he, among other things, visited several universities and made friends with Chinese colleagues. As a result of his summer in China, he wrote reports about his observations and submitted them to WAIS, the World Association of International Studies, a fellowship of scholars, scientists, and others active in international affairs. The organization is run and moderated by Professor Ronald Hilton, of the Hoover Institution of War and Peace at Stanford University. Dr. Simon was honored to accept an invitation to become a permanent member of WAIS. As a member of WAIS, he has submitted numerous contributions to the WAIS group on contemporary issues and events. You can visit the WAIS website at: <http://wais.stanford.edu>.

Eric Suess (Statistics) presented in an Invited Contributed Session at the JSM. His presentation was the first ever at the JSM to deal with Statistics in Animal Epidemiology.

Detlef Warnke (Geology) gave a presentation along with 9 co-authors, “The Pliocene-Pleistocene Portion of ODP Drill Site 188-1165, Prydz Bay, Antarctica,” at the 17th Australian Geological Convention, 8-13 February 2004 in Hobart, Tasmania.

• He gave another presentation, “Integrated Study of Ice-Rafted Debris, Temperatures, and Stable Isotopes on a Spliced Record...from the South Atlantic,” co-authored with Lora Teitler (Geology graduate student), S. Becquey, R. Gersonde, K. Venz, and D. Hodell at the American Geophysical Union Fall Meeting in December 2003, in San Francisco.

• Dr. Warnke also chaired a session with G. Filippelli and N. Exon “Southern Ocean Climatic Evolution: The Marine Geologic Record I and II (poster and oral)” at the same conference.

Helen Zong (Engineering) was awarded a Teacher’s Fellowship during the summers 2003 and 2004 by IISME (Industry Initiatives for Science and Math Education). During the fellowships, she conducted two successful research projects at Intel Corporation. The objective of the first project, “Computer Simulation Re-

(Professional Accomplishments, continued from page 4)

search for Semiconductor Wafer Sorting,” was to reduce through-put time, and cost, while increasing on time delivery, and production output. The objective of the second project, “Computer Simulation Research for Semiconductor Wafer Fabrication,” was to determine balanced capacity for wafer fabrication, to reduce product cost, and to increase production output. She has transferred much of her research into her

Grants

Mitch Craig (Geology) and **Joy Andrews** (Chemistry/Biochemistry) have received an award from the National Oceanographic and Atmospheric Administration for their project, “Continuous In-Situ Monitoring of South San Francisco Bay,” the award comes via a subcontract through San Jose State University Foundation, Moss Landing Marine Labs.

Joy Andrews and Mitch Craig (Geology) received a grant from CALFED for the project “Biochemical and Physical Effects of Water Hyacinth on Suspended Sediments and Trace Elements.”

Michael Groziak (Chemistry/Biochemistry) received a grant from the NIH for his project, “Probes for Studies of Nucleotide-Binding Proteins,” in July 2004.

Michael Groziak, Anne Kotchevar, Chul-Hyun Kim, and Richard Luibrand (all from the Department of Chemistry/Biochemistry) received a grant from the NSF for their project, “Acquisition of a High-Field Multi-Nuclear FT-NMR Instrument,” in August 2004.

Chul-Hyun Kim (Chemistry/Biochemistry) received a grant from the National Science Foundation for his project, “Structural and Functional Studies on the RNA Motifs Determining the Specificity for the Viral RNA Replication.”

Community Elder Care

Kimberly Kim (Nursing) and her Level 1 Nursing Team continue to implement the Community Elder Care Project, which began in the fall of 2003. The purpose of the project is to promote wellness of elderly clients living in community HUD housing. Students are able to practice their nursing skills and promote the wellness of clients by identifying their health needs, screening their blood pressure, and blood glucose levels. The students also develop and present health education programs to groups of clients. The project is supported by Roche Diagnostics which provides the diabetes screening equipment and supplies.

Report from Denmark

My family (Julie Glass, son, Alex and daughter, Violet) and I spent the month of August in Aarhus, Denmark, where I taught a one week Ph.D. course in Neurobiology to a group of graduate students at the University of Aarhus. In addition to the teaching, we had a great time traveling in Denmark and seeing such sights as Legoland, Tivoli garden (Copenhagen), a wild animal park, and a real castle replete with ghosts and a real moat! In the entire month we found nothing rotten in the state of Denmark (except the rain).

During my stay I also gave a seminar for my host department (Department of Zoophysiology) at Aarhus University titled: “Development of Respiratory Rhythm Generation in the Bullfrog.”

In late August, I traveled with group from Aarhus University to attend The 5th Nordic Symposium on Fish, Frog and Reptile Physiology held at the Klubbans Marine Station in Fiskebäckskil, Sweden. I gave a talk titled, “Effects of anoxia on the amphibian brainstem respiratory oscillator during development.”

After returning home for a week, I traveled to Capri, Italy to attend a meeting (Nitric Oxide: Comparative Aspects of Respiratory and Cardiovascular Homeostasis) that was sponsored by the Society of Experimental Biology (UK). I chaired a session on “The role of nitric oxide in cardio-respiratory regulation” and was one of 6 speakers in the session. I gave a talk titled, “Nitric oxide and the development of the respiratory central pattern generator in amphibians.”
- **Michael Hedrick** (Biology)

Our Own CSUH Amazon Survivor

This summer, Biology Professor **Chris Kitting** traveled to Manaus, Brazil, just south of the equator, to attend the Biannual International Conference on Fish Biology. This region is home to the world’s largest river, watershed and group of lakes. It is also contains the world’s largest collection of freshwater and land-dwelling bio-diversity.

Many species of piranha fish were there too, but most eat only plants. Kitting bit back eating piranha often, and he found most of the meat on their jaws. Kitting video taped some electric fish species using a transducer to broadcast their electrical signal as sound audible to humans. Many lily pads were observed some measuring over one meter in diameter. These are the world’s largest aquatic plant species.

The city of Manaus has an elegant, historic and large “Eco-Resort” conference center north of the city on

(Amazon, continued on page 6)

the Amazon River. After dark, Kitting explored around decorative pools near the resort. What he thought were big rocks in the water turned out to be large freshwater turtles. After the rainiest season (with 2.5 meters of rainfall annually), the river had been ~3 meters higher, and at the end of the dry season, the river is ~15 meters lower.

Kitting presented a talk co-authored by his former graduate student from Brazil, Dr. Cleber Ouverney, who now is a research scientist at Stanford Medical School. After the conference, Kitting and a group of nine other scientists from five countries chartered a wooden cabin cruiser, complete with canoes and a guide, to explore the Amazon and several tributaries from the muddy Solimoes River to the clearer Lake Mamori. Although the group had been informed that this region was the best area and best time of year, for the fewest mosquitoes, it turned out not to be “saying much.” While wading in shallow vegetation at night, mosquitoes instantly coated any exposed skin.

The boat was smaller than expected. Virtually everyone had to sleep on deck, under one canopy with temporary hammocks or in a small dome tent. Fortunately, they were a very congenial group. Kitting, always prepared, helped the team from the poorly stocked boat, since it had very little drinking water, no mosquito netting, no binoculars, almost no batteries, lights, or power.

Kitting also had read that no large predators are significant in the Amazon, but this proved to be incorrect. As they surveyed the vegetation at night, large pairs of eyes reflected the light. The eyes belonged to three species of cayman (alligators), the largest seen being 2.5 meters long. Sizable birds were seen disappearing swiftly into cayman jaws hidden in the shoreline vegetation. Charming place to snorkel?

The cruise up into the lakes through narrow channels was very similar to Disneyland’s, “Jungle Cruise.” The river has the most freshwater fish species on the planet, and many real cayman along the shore. There are thousands of interesting birds too and fascinating freshwater pink dolphins, plus the more common grey species.

Shore predators and mosquitoes kept them all from snorkeling properly, until the two final days, but Kitting got most of his underwater photos by hanging over the side of the canoe (as quickly as possible). The water was murky even at the clearest places, like snorkeling in an aquarium, filled with tea for water. The water is naturally brown from rotting leaves.

The photo below was taken very close to where the movie, “Anaconda,” and the television show, “Survivor, Amazon” were filmed. Kitting used his underwater optics (which are also useful in murky water such as San Francisco Estuary) to sample aquatic animals associated with Amazonian vegetation. The same vegetation has invaded the California Delta over the last few decades.



The Amazonian boat captain, “Lyndon Johnson,” used Kitting’s topside camera to shoot this of him, always protected from the scorching sun.

GOLDWATER SCHOLARSHIP

CSUH students interested in a career in mathematics, the natural sciences, or engineering are invited to apply to the Barry M. Goldwater Scholarship and Excellence in Education Program, after being nominated by a CSUH faculty member.

In Spring 2005, the Goldwater Foundation will award scholarships to students who will be sophomores or juniors during the 2005-2006 academic year. Students must be nominated by their institution. The scholarship award covers eligible expenses up to a maximum of \$7,500 per year. To be eligible, a student must be a U.S. citizen or resident alien in the upper quarter of his/her class and be interested in a career in mathematics, the natural sciences, or engineering.

Alan Monat, Associate Dean of the College of Science, is the faculty representative for the Foundation. He can be reached at (510) 885-3441. Goldwater nomination materials are also available on the Web: www.act.org/goldwater. Completed applications are due in the College office by January 7, 2005.

Henry Thai was the last CSUH recipient of the Barry Goldwater Scholarship in 1991. He is now, Dr. Henry Thai, a physician practicing internal medicine in Palo Alto.

Staff News

Charlene Receives Award

Charlene Lebastchi has been honored as the recipient of the 2004 Vivian Cunniffe Award. Charlene had 18 enthusiastic colleagues nominate her for the award. The annual award was established in 1986 and is given to a staff member for demonstrating "professional attitude, a willingness to assume responsibility, a commitment to campus life, and pride in a job well done." Charlene, a CSUH alumna, has worked in the College of Science since 1996 and currently serves as an Administrative Support Coordinator.

Charlene is the seventh staff member from the College of Science to win the award. The past recipients from the College of Science are:

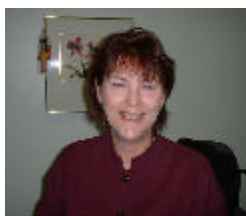
Here is a note from Charlene:

First of all, I would like to thank those of you who wrote such

1987-Nan Franceschini	1996-Ann Cambra
1991-Virginia Palmer	1999-Phil Garbutt
1993-Susan Parsons	2001-Jan Muzzy
1994-Jim Stanford	2004-Charlene Lebastchi

wonderful letters of support toward my nomination for the Vivian Cunniffe Staff Award. To have been nominated, was an award in itself, but to have actually received the award, was beyond my wildest expectations. Secondly, I wish to thank all of you for your congratulatory wishes. I am very fortunate to have found a "job" that I truly love. I look forward to the challenges that each day brings and hope that I can make a difference in each of your lives. I am

now the eighth College of Science Vivian Cunniffe Staff Award recipient since 1985. I feel honored to have joined this group of individuals. What a special family we are in the College of Science. This award belongs to all of you!



Coach Harris

Earl Harris (Chemistry/Biochemistry) is a mentor for David Klech in the high hurdles, an event in which Earl has formerly competed. David won the 400 intermediate hurdles finals at the USA Track and Field Junior Olympic National Championships in Eugene, Oregon in July 2004. He became the National Champion in the intermediate boys division (15-16 years old). David will be a junior at California High School in San Ramon this year. Earl is an Assistant Coach for the hurdle events at this school. Earl says, "I'm convinced that the best is yet to come from this young, gifted athlete."

2004 College of Science Scholarship Recipients

ACCMA (Alameda/Contra Costa Medical Association) Scholarship	
Zahira Begun	Chemistry
Esosa Egonmwan	Biology
Thomas D. Henderson II	Biology
Adelodun Lawal	Biochemistry
Elizabeth S. Page	Nursing
Maribeth M. Perez	Nursing
Joan Sieber and Ric Tombari Scholarship	
Yumi Kubo	Statistics
Kenny Meagher	Counseling
Ernest Clements Scholarship	
Yanli Wang	Nursing
E. Guy Warren Scholarship	
Benson Gikanga	Biochemistry
Robert C. and Jeanne Whitney Scholarship	
Carlin Dare	Geology
Elsie Sanderson Nursing Scholarship	
Amida Kakar	Nursing
Hospital Service League Scholarship	
Deborah Ho	Health Sciences
Schering-Plough Foundation Laboratory Assistantship	
Decie Boone	Post-bac
Jeannine Darrow	Biology
Benson Gikanga	Biochemistry
Samantha Jones	Biology
Stephanie. L. Jones	Biology
Miguel Mendoza	Biochemistry
Schering-Plough Foundation Student Research Program	
Mariana Alvaro	Statistics
Jorge Rocha	Chemistry

Student News

Thomas W. Butler II (Geology graduate student) was the 2004 recipient of the Harrington Award for his University Thesis, "Aqueous Geochemistry of an Acid Mine Impaired Watershed." The Harrington award is an annual award given to the top university theses from each CSUH college.

Congratulations to recent CSUH chemistry graduate, **Alicia Gutierrez**, who is now in a Ph.D. program at Stanford.

Heeju Jang (Statistics graduate student) attended a 3-day National Household Educational Statistics (NHES) database training seminar sponsored by the National Center for Educational Statistics (NCES) in which she was one of 15 selected participants. The NCES in the Institute of Education Sciences is the statistical agency of the U.S. Department of Education and the primary federal provider of education statistics on the condition of American Education. The seminar was an overview of the NHES data.

Two of Sally Richardson's (Writing in the Sciences) students were winners of the English Department essay contest. **Nataliya Lishchenko** won a first place award, and **Mari H. Tran** won second place—both were in the second tier English category.

Samantha Russell, a Level II nursing major, has received the Nu Xi Chapter-at-Large/CSUH scholarship for 2004. Nu Xi is a chapter of Sigma Theta Tau International Honor Society of Nursing comprised of members from Cal State Hayward, Holy Names University, and Samuel Merritt-St Marys' College of Nursing. Sam ultimately wants to be a flight nurse and so plans a career in critical care nursing. She began work as a Nurse Aide in the Medical Intensive Care Unit of Stanford Hospital in July.

Sam is the newly-elected President of Hayward Student Nurses Association and looks forward to developing an agenda to serve the needs of Association members. In her free time, Sam likes camping and volunteering for the Tri-Valley



Brenda Bailey, chair of the Nursing and Health Sciences Department, and Samantha

Animal Rescue group. Her specialty is socializing homeless kittens so they can be adopted from the Tri-Valley Animal Shelter.

Clayton Schupp (Statistics MS alumnus) recently entered the Statistics Ph.D. program at UC Davis.

Dates to Remember

12/6/04 - 12/10/04	Fall Quarter Finals
12/24/04 - 1/2/05	Winter Holiday Break University Closed
1/3/05	Winter Quarter Begins
1/17/05	Martin Luther King Holiday
3/14/05 - 3/18/05	Winter Quarter Finals

Saturday, April 16th 2005
Science Festival 2005

The Science Scene is the tri-annual newsletter for the CSUH College of Science

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Production Editor	Andy Dobbin
Contributing Editor	Charlene Lebastchi
Contributing Photographer	Art Marquez
Reporters	All of you in the College of Science

<http://www.sci.csuhayward.edu/>

Thank you for all of your contributions. Please submit any items you would like to see in the Winter issue to Andy at: adobbin@csuhayward.edu