

THIS WEEK

April 30, 2007
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The fastest motorcycle in the world

[Full Story](#)

THE NEED FOR SPEED--Professor Joseph Harralson was part of a team that built the fastest motorcycle in the world.

Professor and students team up with Shriners Hospital to research and prevent falls

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Jill Trainer has been named dean of the College of Natural Sciences and Mathematics at Sacramento State. The appointment will be effective mid-July.

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Mark Lund

Mark A. Lund is such a believer in community banking that he came out of retirement last year to start his own company.

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EVENTS



Featured event -- Veenai Jayanthi Kumaresh

South Indian classical musician Veenai Jayanthi Kumaresh will give a performance on the veena, a South Asian stringed music instrument, at 6 p.m. on Sunday,



Sacramento State has a new carpool matching system—AlterNetRides—just for Sacramento State faculty, staff and students. To log on to the system and for more information regarding carpooling, visit the University Transportation and Parking Services web page at www.csus.edu/utaps. Click on Alternative Transportation and then the AlterNetRides button. Or visit www.sacregion511.org for a Sacramento regional carpool matching system.

A carpool consists of two or more occupants. Faculty/staff carpool permits are valid in any Sacramento State carpool parking spaces, located in Lots 1, 2, 4 and Parking Structure I. On days when carpool members drive to campus alone, a Faculty/Staff carpool permit is valid in Faculty/Staff spaces. Carpool permits may be obtained at the University Transportation and Parking Services office in Foley Hall.

For more information contact Alfredo Orozco at orozcoa@csus.edu or extension 87527.

May 6, in the Musical Recital Hall, Capistrano Hall. Tickets are \$12 general, \$6 students, and are available at the Sacramento State Ticket Office at 278-4323 or Tickets.com.

[Campus Calendar of Events](#)

ATHLETICS

Adam Pohll named Big Sky women's golf coach of the year

Sacramento State's Adam Pohll has been voted the 2007 Big Sky Conference Coach of the Year, the league announced.

[Full Story](#)

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Bulletin Staff



The *Bulletin* is distributed on Mondays of the academic year. Campus news may be submitted by e-mail to bulletin@csus.edu. Deadline for all materials is 10 a.m. on the Wednesday before publication. For more information call 278-6156.

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The fastest motorcycle in the world—mechanical engineering professor sets landspeed record

For mechanical engineering professor Joseph Harralson, setting the world record for a two-wheeled vehicle was a dream 18 years in the making. And with expertise, determination, and a little serendipity, he and the team of five others made the dream a reality.

On Sept. 5, 2006, the motorcycle the team built from the ground up set the land speed record for two-wheeled vehicles. Clocked at 350.884 miles per hour, the motorcycle is considered the fastest in the world.

“I was at an automotive engineering seminar in 1988, listening to Dennis Manning—owner of a motorcycle exhaust company named BUB—talk about the motorcycle he helped build that broke the speed record in the 1970s,” says Harralson, “and I realized I wanted to break that record. We spoke after his presentation, and I invited him to speak to my class.”

When Manning came to visit, Harralson had some drawings of what the possible world-breaking engine would look like. “They were all hand-drawn—computers didn’t have the capabilities back then that they do today,” says Harralson.

He showed the drawings to Manning, and they decided to embark on the project. But the first of many problems arose from there.

“This was a multi-million dollar project we were getting started on,” says Harralson, “and we were just two guys with big plans and no money. But we had many serendipitous moments. When we needed a caster for the pattern parts, Dennis knew someone who would do it for free. When we needed a machinist to refine the rough materials, Dennis happened to run into one. When he explained to the machinist what we were doing, he offered his services for free as well.”

When the motorcycle was finished, the team—known as Team BUB—took it out for a run. The speed topped out at 300 miles per hour—not nearly quick enough to break any land speed records. Discouraged, the team understood that a complete redesign of the motorcycle was necessary to become a contender in breaking the world record.

“The motorcycle was too heavy,” says Harralson. “So we decided to change the frame, which was made out steel tubes, and instead make it from carbon fiber.” Carbon fiber, he explained, is stronger than steel and much lighter. This unique feature—plus the fact that the bike had no frame—made the motorcycle unlike any of its kind.

But the motorcycle still had aerodynamic issues. Harralson says, “We were stumped on that one. Then one day, Dennis was watching salmon swim up a ladder at a fish hatchery. They were amazingly fast, and he was inspired to make the motorcycle the same shape as the fish.” Sure enough, kismet struck again, and the team went to work on the new shape for the two-wheeled vehicle.

After the rebuild, the team was ready to go to the timings at the Utah Salt Flats in September 2006. But two days before the race, the team found itself coming up against yet another hurdle.

“The governing body that oversees the competition asserted that our engine was slightly too big,” says Harralson. And he’s not kidding when he says “slightly.” The disputed measurement was less than the thickness of a sheet of paper. “However, it turned out it was the tools they utilized to measure it that were inaccurate, not the dimensions of the engine.” After a lot of explaining—as well as some sweat and tears—the officials agreed, and the motorcycle was approved to race.

The speeds are measured over two runs on the Salt Flats. The runs are 11 miles total—five miles to reach the top speed, one mile in which the speed is recorded, and five miles to stop. Two hours later, the motorcycle takes the same 11-mile path back. The official speed is an average of the two one-mile runs going either way. Additionally, the speed must be 1 percent faster than the record to break the world record.

“Our average speed was 350.884 miles per hour, and we broke the record,” says Harralson. The record-breaking speed came as a disappointment to the motorcycle rider who had broken the world speed record the day before Team BUB. Incidentally, that rider was the original rider for Team BUB but had parted ways—contentiously—earlier in the year. “He was none too pleased about that,” says Harralson.

And if you think Harralson is resting on his laurels after his world-record goal was achieved, you’d be wrong. “Team BUB is trying to make the motorcycle even faster,” he says. “Our goal now is to get the bike up to 400 miles per hour.”

Professor and students team up with Shriners Hospital to research and prevent falls

Professor Warren Smith and six of his electrical and engineering students have a singular goal in mind: getting kids with cerebral palsy moving and playing. And Smith and his students are working with Shriners Hospital to see if a popular treatment can do just that.

“Children with cerebral palsy have difficulty walking and playing and therefore avoid recreational activities with their peers,” says Smith, an electrical and electronic engineering professor on campus since 1973.

He and his students are tracking the effectiveness of a common therapy to assist children with cerebral palsy in ease of movement. They take “movement measurements” in the everyday living of the children.

Fall monitors, attached to the children via fanny packs, track how much the children fall and gauge the value of the treatment.

Smith and his students received funding for the project from Shriners Hospital in January 2006.

“When we found out we received the funding for the project, one of my students made a mannequin about the size of a child,” says Smith. “We did our first testing on the mannequin, whom we named ‘Pinocchio.’ The student manipulated Pinocchio to fall down in different ways and used a mathematical technique to recognize the falls.

“Based on his results, we were able to create algorithms for a fall,” Smith says.

The children’s movement was originally studied in the Motion Analysis Lab at Shriners. In the room seven cameras are aimed at a child while he or she walks down a runway to the center of the Lab to a “force plate” in the middle of the room. The cameras pick up reflective patches on the child that analyze the child’s motion. Once treatment has been given, the child walks down the runway again and the motion is analyzed after the treatment to see how it has improved the child’s movement control.

Smith and his students saw that in the tightly controlled setting of the Motion Analysis Lab, the children were trying their best to walk, but it didn’t accurately predict how the treatment would affect the child casually moving around at home or at school. Shriners hospital officials suggested that their monitoring method was a more practical technique.

The first 'real' children's play session was in March 2006, and they played on an outdoor park on the Shriners campus while wearing the movement monitors. Accelerometers measured three ranges of motion: up and down, side to side, and forward and backward.

The monitors transferred and stored the movement data via a radio signal to a laptop computer located nearby. The data is analyzed while the video plays back the child's movement simultaneously. "Through that analysis, we can train the computer to tell the difference between a jump, which the child controls, versus a fall, which the child can't control," says Smith.

Presently, Smith's team is working on low-profile monitors for the children to wear during their everyday lives. They will be approximately the same size as an electronic pager.

"We knew that as engineers, we could develop a way to monitor the children in the least obtrusive way possible while the child was at home or at school," says Smith. "So we wanted to get that data to supplement the information that was gathered at the Motion Analysis Lab. We also wanted to see if, after the treatment, the child would fall down less.

"We're hoping this will promote appropriate treatments for these children. We just want kids to experience the joys of childhood they otherwise might not have had."

Scholarly students

One of Sacramento State's best kept secrets is the applied research work of its undergraduates.

"People tend not to think of Sacramento State as a place where student research is undertaken, particularly at the undergraduate level," says Terry Manns, director of Research Administration. "But we are, and many students here have a chance to demonstrate the scholarly activities in which they are involved."

The Office of Research Administration hosts the Student Research Competition every year, two months before the statewide competition. The winner receives a \$200 award.

This year, nine students exhibited their research and scholarly pursuits in early March. Students represented many different disciplines including biology, chemistry, history and social work. Those students will go on to represent the University at the annual CSU Student Research Competition on May 4 and 5 at California State University, Dominguez Hills.

"It all started 20 years ago, when Fresno State was celebrating its 75th anniversary," says Manns. "Officials there decided to commemorate the occasion by hosting a student research competition, open to all students, both undergraduate and graduate, in the California State University system.

"The competition went so well that the CSU decided to make it an annual event." A different CSU campus hosts the event each year.

Sacramento State decided, in the Student Research Competition's inaugural year, to give its students a leg up on the competition by hosting its own student research competition.

"It gives the students a chance to prepare," says biology professor Ronald Coleman, faculty advisor to the presenting students. "They can really sharpen up their presentations and make them the best they can be."

The students submit a five-page narrative and prepare a 10 minute oral presentation of their research. The students are judged based on the narrative, their presentation in front of an audience and a panel of faculty judges, and a three-minute question and answer session.

Coleman stresses that the process and preparation for the students is what's of value. "Collecting the data, making the hypotheses, and exchanging ideas with others who have the same interests is a wonderful opportunity for these students and expands their horizons in an important way early in their academic career," he says.

This year's winner was Pang Moua, a Biological Sciences major who presented her research titled "The Effects of Datisica Glomerata on two Breast Cancer Cell Lines, MDA-MB 231 and BT-474."

"Participation in this competition indicates a level of seriousness in one's academic career," says Coleman. "Students who enter this can think beyond the bachelor's degree. It's a launching pad of sorts."

For more information on the Student Research Competition, contact the Office of Research and Administration at 278-7381.

Jill Trainer appointed Science and Math dean

Jill Trainer has been named dean of the College of Natural Sciences and Mathematics at Sacramento State. The appointment will be effective mid-July.

In making the announcement, Provost and Vice President for Academic Affairs Joseph Sheley said, "Dr. Trainer is held in high esteem by her colleagues as a teacher and has published numerous articles in such journals as *Behavioral Ecology*, *Ethology*, and *Animal Behavior*."

Trainer comes to Sacramento State from the University of Northern Iowa where she is the associate vice president for sponsored programs and a professor of biology. Her research focus is in behavioral ecology and ornithology.

She holds both a master's degree and a doctorate in ecology and evolutionary biology from the University of Michigan, as well as a bachelor's degree in zoology from UC Berkeley.

Retirement reception

President Alexander Gonzalez and senior administrative staff will host a reception honoring retiring University employees from 3:30 to 5 p.m., Wednesday, May 9, in the Library Gallery. The campus community is invited to attend the event. Those interested in attending should call the RSVP line at 278-4040 by May 2.

Faculty	Dept	Yrs.
Froeliger, John	Government	14
House, James	Athletics	1
Mertz, Karl	Geology	12
Nance, Marlon	Geology	20
Papa, Rosemary	Academic Affairs	6
Stroube, Mary	Counselor Education	20
Valiterra, Mary	Psychological Counseling Services	17
To FERP	Dept.	Yrs.
Carper, Donald	Business Admin.	31
Clark, John	Business Admin.	27
Driesbach, John	Art	26
Fitzgerald, Michael	Comm. Studies	21

Fox, Sylvia	Comm. Studies	17
Karagozolu, Neomi	Business Admin.	23
Metcalf, Robert	Biological Sciences	36
Parrott, George	Psychology	38
Pickett, Manuel	Theatre & Dance	27
Stanley, Craig	Business Admin.	26
Off FERP	Dept.	Yrs.
Busick, Dean	Theatre & Dance	37
Cook, Charlotte	Special Education	29
Dorman, William	Government	17
Gaedeke, Ralph	Business Admin.	3
Gehrmann, James	Mathematics	32
Gunter, Annik	Foreign Languages	37
Hinderstein, Allan	UCCS	31
Hwang, John	Comm. Studies	33
Koch, Richard	Special Ed. Rehab School Psychology	4
Lum, Doman	Social Work	32
Meindl, Robert	English	3
Murai, Harold	Bilingual/Multicultural Education	33
Stevens, John	Physics/Astronomy	37
Tanaka, Ronald	English	32
Torcom, Jean	Government	37
Von Den Steinen, Karl	History	39
Watson, Annita	Student Health Center	40
Staff & MPP	Dept.	Yrs.
Aguayo, Pedro	Facilities Services	32
Allan, Margarete	Comm. Studies	13
Alvarado, Barbara	Public Safety	24
Applegate, Jan	Financial Aid	27
Bojorquez, Michael	Physics/Astronomy	25
Bradley, Mary	Geology	10
Brown, Jacquelyn	Continuing Ed.	11
Brown, Ric	Academic Affairs	12
Castillon, Vickie	Institutional Research	23
Clark, Kelly	Public Safety	4
DeAdwyler, Theodore	Public Affairs	1
DeKorte, Jacquelin	Student Affairs	41
Fletcher, Brian	Chemistry	5
Forrest, Rayma	Center for Collaborative Policy	5
Griffith, Thomas	Student Affairs	38
Hall, Anita	Admissions & Records	29
Hargrove, Gerald	Nursing	7
Herron, Cloteal	Outreach Services	35
Hill, David	UCCS	35

Hilton, Nancy	Admissions & Records	34
Holtzman, James	EEE	27
Hough, Elizabeth	Business Admin.	13
LaRovere, Joanne	Public Safety	20
Long, Alma	Student Affairs	40
Love, Larry	Art	34
Newberry, Sylvia	Academic Affairs	34
Noble, Paul	Academic Affairs	36
Price, Lindell	Foreign Languages	21
Richards, Sara	Academic Technology & Creative Services	4
Rossi, Richard	UCCS	20
Samuel, Bonnie	Admissions/Records	34
Schuster, Martha	Career Center	7
Stewart, Carolyn	Teacher Education	12
Stouder, Michael	Student Health Center	6

All employees on the list have submitted a notice of intent to retire to the University.

Faculty Senate

Tuesday, May 1

1:30 p.m., Curriculum Policies Committee, tentative

3 p.m., University ARTP Committee, Capital Room, University Union, tentative

Wednesday, May 2

1 p.m., Faculty Policies Committee

Thursday, May 3

3 p.m., Faculty Senate, Foothill Suite, University Union

Friday, May 4

2 p.m., Academic Policies Committee

All meetings are in Sacramento Hall 275 unless otherwise noted.

Professional Activities

Students

Ben Claridad, sophomore, took seventh place at Collegiate National Weightlifting Championships held the weekend of April 21. Claridad competed in the Men's 105kg Class lifting, 115kgs in the Snatch, and a personal record of 132kgs in the Clean and Jerk for a new personal record total of 247 kgs, which is 543.4 pounds.

Anthropology students recently presented research papers at the 78th annual meeting of the Southwestern Anthropological Association. Representing Sacramento State were graduate students **Andy**

Connelly, Eric Cotenas Meghan H. Farley, Sarabel Gonzales, Joseph Henry, Priscilla LoForte, Patricia MacEwen and Mark Miller. Undergraduates **Amy Allshouse** and **Benjamin Hanowell** also presented research papers. The meeting was hosted by the Anthropology Department and was held April 12-15 in Sacramento.

Scholarship

Terri Castaneda, Anthropology, took part in the Southwestern Anthropological Association meeting, chairing the session "Museums and Material Culture." Castaneda is the outgoing president of the Association and presented a paper titled, "Digitally Mining the Museum."

Don Carper, Business Administration, has co-authored two articles in the *Journal of Sleep Diagnosis and Therapy*. The article "Assessment of Obstructive Sleep Apnea Risk and Severity in Truck Drivers: Validation of a Screening Questionnaire," appears in Vol. 2 No. 2, April – May, 2007. Carper also wrote "Assessment of Obstructive Sleep Apnea Risk and Severity in Truck Drivers: Commentary on the Legal Implications for Ignoring a National Safety Concern," in the same volume.

Mark Hennelly, English, has two essays pending. "Alice's Adventures at the Carnival" will appear in *Victorian Literature and Culture*. "Dickens's Writing on the Wall: *Dombey* and *Bleak House*" will be published in *Dickens Studies Annual: Essays on Victorian Fiction*. Hennelly also has two reviews forthcoming: one on Irish Gothic in *Le Fanu Studies* and the other on Victorian Gothic in the *Dickens Quarterly*.

Janet Hecsh and **Pia Wong**, Teacher Education, organized the first annual Teachers' Network Leadership Institute Policy Briefing on April 20 at the Capitol. Nine teacher researchers presented the action research conducted by more than 20 policy makers from the region. The research provides recommendations on effective instructional strategies for low-income students, English learners, and high school students.

Doug Rice, English, has had his novel, *Blood of Mugwump*, translated into French and published as *Le Sang Des Mugwump*, by Editions – Desordres.

Roger Sullivan, Anthropology, co-authored two presentations at the 76th annual meeting of The American Association of Physical Anthropologists in Philadelphia, PA. The talks were titled: "The Paradox of Drug Reward in Human Evolution," and "Human Counter-exploitation of Plant Neurotoxins."

Members of Sac State's chapter of the American Society of Civil Engineering won first place at the 2007 water treatment competition held April 14 at the University of Nevada, Reno. "Water Treatment from Your Kitchen and Beyond," was the theme of the competition won by team members **Jacqueline Etter, Francesca Grosjean, Jennifer Guerard, John Nurmi, Tanya Oselskaya, Yelena Oselskaya, John Preston, Mark Quito, Luise Sarmiento** and **Charles Zelnik**.

In the news

Barbara O'Connor, Communication Studies, was quoted in the April 4 *Contra Costa Times*, *San Jose Mercury-News* and *West County Times* about the campaign message of a bill that enacts term limits but, if passed, can also extend lawmakers' time in office and in the April 1 *Sunday Valley Times* and *Marin Independent Journal* and the April 2 *Alameda Times Star*, *San Jose Mercury-News* and *Oakland Tribune* about the benefits of gubernatorial candidates having three televised debates instead of one.

Tim Hodson, Center for California Studies, was quoted in the March 26 *Woodland Hills Daily News* about the governor's aides' proposal to change state law to make his office staff receive the same salary percentage increase as the Legislature.

Terri Sexton, Economics, was quoted in the March 11 *San Gabriel Valley Daily Tribune* about the taxation of landlines and wireless communications services.

Cheryl Osborne, Gerontology, was quoted in the April 15 *Sacramento Bee* about educational opportunities and discussion groups for senior citizens.

Suzanne O'Keefe, Economics, was quoted in the April 10 *Sacramento Bee* about her study that found that STEM jobs are expected to grow at a faster rate than all other jobs in California.

Robert Pritchard, Teacher Education, was interviewed on April 9 on KCRA Channel 3 about teacher-student boundaries.

Campus Announcements

Staff Employee Recognition Program nominations due

The President's Office is pleased to announce that Sacramento State is continuing the Staff Employee Recognition Program. The benefits of being honored by the Staff Employee Recognition Program include a reserved parking space for the quarter in one of several lots (employee's choice), a congratulatory letter from the President, an award certificate and an article with a photograph on the University's website.

The final date of submission for this quarter is Friday, May 25. The final selections will be announced in June. Complete details regarding eligibility, criteria, and nomination procedures are available on the website link: www.csus.edu/president/staffrec/index.stm

Submitted by the President's Office

CMS training announcement for May

The following training is being offered by the CMS project team in May:

- Faculty center training
 - Includes an overview of the class roster, grade roster, Sac State messaging, class search and faculty search features
 - Covers use and benefits of the advising feature and how to request access to this feature
 - Provides assistance with completing the information security program training and the request for CMS user access for student administration
 - Faculty Center training is also available at www.csus.edu/cms/training/mysacstate/index.stm
- Student financials services center training
 - Includes an overview on how to read a student's account
 - Service indicators
 - Student services center
 - Posting and reversing charges
- Professional staff advisor training
 - Covers use and benefits of the advising feature and the request process for access to this feature

For more information, contact the CMS help desk at cmshelpdesk@csus.edu or 278- 2670.

Submitted by CMS Project Office

Human Resources

Catastrophic Leave Donation Program

Sacramento State employees may voluntarily donate to other employees up to a maximum of 16 hours of sick or vacation leave credits each fiscal year in one-hour increments. CSUEU, MPP, Unit 4, Unit 6 and Confidential employees may donate up to a maximum of 40 hours per fiscal year.

If employees are interested in donating time, a donation form can be obtained by going to www.csus.edu/hr/forms.stm#Disability, or by visiting the Human Resources, Disability Leaves Office in Sacramento Hall 162, or by calling extension 278-3522.

The following employees have been approved for the Catastrophic Leave Donation Program:

*Michael Mene, Facilities Services
*Pamela Sanger, Communication Studies
*Mical Shilts, Family and Consumer Sciences
Gary Davis, Facilities Services
Rose Marie Fisher, Graduate Studies
Sharla Cook, Criminal Justice
Candace Kehoe, Administration and Business Affairs

*only vacation credits may be donated to these employees
Submitted by Human Resources

Banking on community Mark Lund

Mark A. Lund ('71, Business Administration) is such a believer in community banking that he came out of retirement last year to start his own company.

Lund is the founding president and CEO of Roseville-based Community 1st Bank. With a second branch in Auburn, the bank employs 20 people.

"Building a community bank—from the ground up—is something I've always wanted to do," says Lund, who over the years has seen many community banks eventually acquired by bigger banks.

Unlike nationally centered institutions, community banks offer borrowers loans from local lenders and community members who are familiar with the area's economy.

"The thing I like about being involved with community banking is you have an opportunity to help so many people realize their dreams," says Lund.

Lund also sits on the bank's board of directors along with several other Placer County investors. "Out of approximately 350 shareholders nearly all are residents here in Placer County," Lund says. "If someone comes in for a loan, we not only know him, but we probably also know his numbers."

Before "retiring" with his wife Debbie ('71, Education) in 2004, Lund was the CEO, president and a board director for Rocklin-based Five Star Bank. Prior to that he worked for several banking institutions, most notably for the Bank of Commerce in Auburn for 13 years and Placer Sierra Bank.

Lund is also involved with the Boys and Girls Club of Auburn, Auburn Host Lions Club, Nevada City Masonic Lodge and Shriners.

While his banking career has been a success, he admits that banking was the furthest thing on his mind while he was at Sac State. A chance opportunity as a management trainee for a community bank in Marin County showed him the influence banking can have on people's lives.

"It makes me feel great," he says. "I'm helping people achieve their goals. At the same time I'm helping the community to grow and prosper."

This Week in Hornet Action

Baseball

Tuesday, May 1

Sacramento State at Pacific, 2 p.m.

Thursday, May 3

Sacramento State vs. New Mexico State, 2 p.m.

Friday, May 4

Sacramento State vs. New Mexico State, 2 p.m.

Saturday, May 5

Sacramento State vs. New Mexico State, 1 p.m.

Softball

Saturday, May 5

Sacramento State vs. Saint Mary's , noon, Doubleheader

Sunday, May 6

Sacramento State vs. Saint Mary's, noon, Doubleheader

Cross Country/Track & Field

Friday, May 4

Sacramento State Open

Saturday, May 5

Sacramento State at Modesto Relays, Modesto