Super-sized photos show Mars on Earth

• NASA produces giant glossy prints in effort to show Martian landscapes 130 million away

By Andrew Bridges

PASADENA, Calif. — NASA's twin rovers, Spirit and Opportunity, are 6,600 miles apart on the planet. The rock abrasion tool on the robotic arm of the rover grinds away the rock's surface, allowing scientific instruments to analyze the rock's interior. NASA unveiled the first 360-degree image taken of Opportunity's landing site.

The Mars rovers, Spirit, and Opportunity, 6,600 miles apart on the planet.

“In its landing site. The rover touched down in one of the flattest, smoothest regions on Mars but ultimately came to rest inside a crater 72 feet across.”

By Andrew Bridges

Tuesday, February 3, 2004

Mars Mission enters full swing

WORDS STREET

Students speak on campus issues

“It’s a good thing to have a mixture of the two, business and communication.”

— Jorge Fontes, business senior

“The Cal Poly MBA builds on the rich tradition of learn by doing, close faculty-student interaction, teamwork and a focus on a career development,” said Kara Leever, director of graduate programs for business.

Two Colleges — One degree

By Brian Koser

The O'Ferko College of Business and the graphic communication department are using teamwork to extend opportunities to students.

Together, the colleges will offer a master of business administration degree program with an emphasis in document systems management next fall.

“This program prepares graduate students to understand the dynamics of the document industry while effectively identifying and integrating change in current business processes to provide the highest possible value to the customer," graphic communication department head Harvey Levenson said.

Levenson cites the expansion of traditional print and non-print imaging techniques as a good reason to be familiar with the ever-changing needs of businesses.

“With today's business world, comes the need for new and sophisticated management practices to lead companies in the face of rapidly changing technologies...this unique program allows us to fill this need," Levenson said.

Levenson said graduate programs for the O'Ferko College of Business Ram Krishnan agrees the new program is an exciting opportunity for students.

"The Cal Poly MBA builds on the rich tradition of learn by doing, close student-faculty interaction, teamwork and a focus on a career development," he said.

The first year of the program involves students taking a core of MBA courses in quantitative analysis, finance, organizational behavior, economics, information systems and marketing. First year will also take production and operations management, organizational design and international business courses.

Second year students will take courses that are more major-specific including industry segments, processes and products, document publishing systems, new technologies, digital content management, document pricing, costing and estimating, digital document media and imaging systems management.

An internship and faculty-directed research courses are also included.

The program is open to any student who fills the MBA requirements and takes the area of emphasis courses.

Levenson said this is not a new major, but rather courses that allow business students to get better acquainted to the document systems management world.

"A number of students have been coming in asking about the program if they want a good grounding, they can take the courses," he said.

Founded in 1986, the Cal Poly's graphic communication department is one of the largest in the nation, with approximately 1,500 square feet of modern laboratories and more than 750 students working in virtually all sectors of the industry. This is the first partnership between the graphic communications department and the O'Ferko College of Business.

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A business etiquette workshop, to be held Today at 11 a.m. in the Business Bldg. L-121, will demystify the do's and don'ts and it's and out's of taking that first step into the professional world of boardroom meetings, 9 to 5 workplaces, casual Friday's and conversations at the office water cooler.

Topics will include proper decorum in networking, job interviews and interaction with supervisors and co-workers in business and social contexts. Appropriate workplace dress and laws on harassment and discrimination will also be discussed.

Tax attorney and former Cal Poly lecturer Eddie Quijano will lead the seminar. Once a co-manager of a firm see ETIQUETTE, page 2
News

IMAGES continued from page 1

six of the rolls so far — part of the price of feeding the enormous public appetite for new pictures from Mars.

"The public is who looks at the bill, and what they’re most interested in are the pictures," Caprano said.

His output so far includes a 39-degree, three-dimensional view of Spirit’s landing site in Gusev Crater. The sweeping mosaic, hanging in a JPL conference room, contains 176 million individual picture elements, or pixels.

"It looks like the horizon on the wall," Caprano said of the picture, printed on a 34-by-68-inch computer file.

NASA shoots most of the images to the Web as soon as it receives them. It also packages and ships them to 150 museums and planetariums around the country, including the Smithsonian National Air and Space Museum in Washington, D.C., and the Hayden Planetarium in New York.

Eventually, scientists hope to create a panorama of Opportunity’s landing site that can be projected on the rover’s interior. What took NASA hours to produce on Mariner, it now can chum out in long strings of digits.

Scientists eager to get their first close-up view of Mars, hastily printed out the numbers in strips and pasted them together, line by line. They then drew in the image in crayon, substituting the correct color and brightness for each number value.

"We talk about labor intensive," said Junie Van der Woode, a retired image coordinator for JPL who helped glue together and hand-color those first Mariner pictures.

Today, nearly 40 years later, Spirit and Opportunity already have transmitted 3,500 pictures to Earth — and counting.

"We are just piling on the pixels. It’s a lot of fun," said Cornell University astronaut Jim Bell, the lead scientist for the panoramic camera on the rovers.

ETIQUETTE continued from page 1

of 275 lawyers, Quijano has experience in litigation, debt and equity financing, mergers, sales and acquisitions.

"He is a very dynamic speaker with real world experience that he inter­acts into his teaching," said business finance junior and key organizer of the workshop, Nick Erlandson.

Erlandson said he hopes Quijano will imbue students with the professional knowledge required to create a favorable impression in the work world.

The workshop, Nick Erlandson.

The event will benefit students who commute to WSU every year.

The display — which runs through May 2 — is a four-month exhibit celebrating the highway Vantage Canyol — the final two-hour segment of a long road from the west side to the college town of Pullman.

But to Paul Hirzel, her graduate architecture students. State Route 26 is a 133-mile-long museum of the diverse and fast," Hirzel said.

Monderning over the Frenchman Hills, Paradise Flats, Providence Corlee and Michigan Prairie, the highway crosses some of the most significant geologi­cal, agricultural, botanical and cultural conditions found in Eastern Washington, he contends.

The baby, glass and plaster of Paris models are as diverse as the terrain along SR26. Among them:

• A scale-model of 300-foot tall floodlit balloon towers marking the water depth of the great Missoula floods that swept across the region during the Ice Age;

• "SR26 Road Radio" featuring sounds of the road, including ads by windmills and irrigation sprinklers and a rhythm section of passing mile markers, reflector strips and telephone poles;

• Pieces of clothing from people who live and work along the road: farmer’s coveralls, a road worker’s jacket, a coon hunting jacket;

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WASHINGTON — One student was killed and another wounded Monday in a shooting at a high school in the nation's capital, city and school officials said.

James Richards, 17, a student at Ballou High School, died after being shot several times in the chest, District of Columbia Police Chief Charles Ramsey said. An 18-year-old student suffered a minor graze wound to one leg and was hospitalized, he said.

No arrests have yet been made, said Ramsey, who blamed the shooting on a dispute between students that began sometime last week. Everyone involved was believed to be a student at Ballou, he said.

EAGLE, Colo. — Citing illness, Kobe Bryant didn't show up Monday for a hearing that was expected to play a key role in determining whether his statement to authorities will be admissible at the NBA star's sexual assault trial.

Chief administrator Chris Tubbs said Bryant had wanted to be at his trial, but had to go home because of his illness.

The hearing begins behind closed doors, with arguments expected to last at least two weeks away.

The case saw little of the frenzy the sensational case is expected to generate. Arguments over whether the for­mer Lakers All-Star's legal troubles will go on for months if not years were at the heart of a 20-minute hearing. Judge Alfred A. Delucchi ended with another delay in the case.

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The former Lakers All-Star's legal troubles will go on for months if not years were at the heart of a 20-minute hearing. Judge Alfred A. Delucchi...
For someone who's been yelled at by a deejay to "get off the floor," 4 p.m. Tuesday, Feb. 3, was a welcome relief.

With slight apprehension, I arrived at the free beginner-level class in room 225 of the architecture building. Some nervousness dissipated as I stepped inside the room and members of the Cal Poly Swing Club introduced themselves. Desks were pushed against the wall to create a dance floor. Two students sat cross-legged on the desks; one girl was knitting, the rest of the crowd, my first stab at being able to move and shake it in time.

The instructors organized participants into a circle, and we paired up. Like many of the newcomers, I had come without a partner, which was fine because there was almost an even number of men and women. Plus, the instructors knew both the lead and follow parts.

"The entire era is in your feet," Dill added, "because I danced too stiffly and needed to loosen up, while others said I needed to dance with more tension. That concept was lost on me, but, as instructor Evan Dill, a Cal Poly swing student, explained, it's difficult for everyone."

Several instructors told me I danced too stiffly and needed to loosen up, while others said I needed to dance with more tension. That concept was lost on me, but, as instructor Evan Dill, a Cal Poly swing student, explained, it's difficult for everyone. The instructors organized participants into a circle, and we paired up. Like many of the newcomers, I had come without a partner, which was fine because there was almost an even number of men and women. Plus, the instructors knew both the lead and follow parts.

The instructors led the class in a warm-up of shaking and jittering freely to music that was energetic.

A Mustang Daily reporter documents her experience with swing, the dance style that, although absent from mainstream popularity since the late 1990s, thrives on the Central Coast today. Although swing dancing lacks mainstream popularity, local classes serve to revive it and bring the energy of the past to the present.

The warm-up transitioned into a brief review/introduction of the Charleston step. Before long, we were all stamping our feet and kicking our heels in unison, like cast members in a Rodgers and Hammerstein musical, bursting into a room choreographed dance number.

Swing dancing may not be as popular as it was in the mid-1990s, when bands such as The Brian Setzer Orchestra and Cherry Poppin' Daddies revived big band music, but there's still a lot of people doing (swing). This is actually a pretty good scene for a small community, said computer engineering alumnus Jesse Gearhart, who teaches lessons and runs www.sloswing.com, which contains information about Central Coast swing happenings.

According to the Web site's calendar, swing dances or lessons occur in San Luis Obispo almost every night of the week, in venues such as Mother's Tavern and Madonna Inn. Gearhart explained the appeal of swing dancing.

"It's a change from the whole club scene," Gearhart said. "There's not a lot of stress, not a lot of expectation."

Another participant pointed out the dance has maintained its traditions but has still been able to change with the times. "The boys come and ask you to dance or sometimes we run over and yank them off the dance floor," knowledge alumna Maggie O'Malley said. "The dance has evolved over the years, so there's a lot of layers to it."

For swing dancing, Gearhart recommended wearing shoes such as Vans or any pair that is "light, comfortable and doesn't have major traction."

"The entire era is in your feet," Dill added, stressing the importance of proper footwear. Free lessons are held Sunday afternoon in building 5, room 225. Beginning lessons are at 4 p.m. with intermediate lessons following at 5 p.m.
‘Girl With the Pearl Earring’ better suited for museum, not theaters

By Katie Schiller

One of the big screen events in the coming weeks is "The Girl with the Pearl Earring," a movie that tells the story of Johannes Vermeer's famous painting and the woman he painted. The movie has been called "a masterpiece" by critics, and it is sure to draw audiences to the big screen.

The story begins in 1665, when Vermeer, a Dutch painter, is asked to paint a portrait of a young woman named Griet. Griet is a poor girl from a small village, but she has been chosen to be Vermeer's new assistant. At first, she is hesitant to take on the job, but she is determined to make a name for herself in the art world.

Griet begins to work with Vermeer, and he teaches her everything she knows about painting. She learns to mix colors, to create paintings that are beautiful and true to life. But as she becomes more skilled, she begins to wonder if she is really good enough to be a painter.

Vermeer, sensing her uncertainty, decides to put Griet to the test. He asks her to create a painting of her own, in secret. Griet is scared, but she knows that this is her chance to show what she is capable of.

The painting that Griet creates is a masterpiece, and it captures the essence of Vermeer's style. But the question remains: is Griet truly talented, or is she just a lucky accident? The movie explores this question, and it invites audiences to decide for themselves.

"The Girl with the Pearl Earring" is a moving story about the power of art, and it reminds us of the importance of perseverance and hard work. It is a story that will inspire anyone who has ever felt that they are not good enough.

In conclusion, "The Girl with the Pearl Earring" is a must-see movie for anyone interested in art or history. It is a story that is both beautiful and true to life, and it will leave audiences with a newfound appreciation for the power of art.
Firearm protection is a necessary right

Opinion
Time to reassess the Patriot Act

Praised during a time of national insecurity and panic, the USA PATRIOT Act threatens American privacy and freedom. The law was hurriedly approved, largely without criticism. It is time to reconsider the PATRIOT Act's implications.

The act, created after the Sept. 11, 2001 terrorist attacks, was signed into law on Oct. 26, 2001. Its name is an acronym for Uniting and Strengthening America by Providing Appropriate Tools Required to Intercept and Obstruct Terrorism. The introductory sentence of the law states it intends "to deter and punish terrorist acts in the United States and around the world, to enhance law enforcement tools, and for other purposes."

Political representatives had only two choices regarding terrorism; they could either be for or against it. This left little room for public skepticism of the seemingly most immediate driving force against terrorism. Representatives could either support the Bush administration and the PATRIOT Act or be accused of being soft on terrorism. It's time to seriously reconsider the lasting implications of this law, its purpose and its past effectiveness. While President Bush and Attorney General John Ashcroft request continued support for the law and its limitations, it is time to assess the alternatives.

A California federal district court judge recently ruled that terminology used within a part of the act is so vague that it could possibly infringe upon First Amendment rights. Other groups, including the American Civil Liberties Union, argue that this act still falls within the basic constitutional freedoms it is said to protect.

G toughen your political views. The USA PATRIOT Act destabalized an existing system of checks and balances. Though perhaps initially a necessary limitation on existing basic rights, it is now time to reassess its necessity. There are alternatives to completely uprooting protections of free speech and privacy due to the never-ending threat of future terrorists.

Anastasia Kilham is a journalism senior and Mustang Daily staff writer.

Letter to the editor
Vouchers represent 'double taxation'

Editor,

Rachel Musquiz's commentary ("Vouchers give students a fair chance") Jan. 30) presents dubious evidence as to why the US should adopt a school voucher plan. The truth is that school vouchers represent a direct threat to America's education system and if such a plan were adopted it would most surely threaten to destroy our system.

Musquiz observes that school vouchers would allow families to decide which schools their children attend. This is an intuitive argument and Musquiz is essentially advocating that private schools are not obligated to accept children just because they have vouchers. Private schools have the luxury of picking the students they want and running away the rest, unlike public schools.

Musquiz also states that vouchers would foster competition between public and private schools which, theoretically, would force low-performing schools to improve. This is a preposterous argument and Musquiz fails to provide any empirical evidence that what she claims would actually occur. In fact, this is rather anti-intuitive because Musquiz is essentially advocating that money be taken from public schools and given to private schools. The fact that she then expects the public schools to "compete" against the private schools is absolutely laughable.

Musquiz observes that it is unfair for parents with kids in private schools to pay taxes for public schools. Again, this is a fallacious argument. Everyone pays for services they don't necessarily use. It is part of living in a society that has made a commitment to providing basic services to its members. If anything, school vouchers represent "double taxation."

Will Weatherford is a business administration sophomore.

Letter policy
Letters are the property of the Mustang Daily. Mustang Daily reserves the right to edit letters for grammar, profanities and length. Letters, commentaries and cartoons are approved by the editor-in-chief. Mustang Daily reserves the right to edit any letters, including the correct format. Please limit length to 250 words. Letters should include the writer's name, phone number, major and class standing. By e-mail: Letters to the Editor Building 26, Room 226 For those who assume American political leaders make decisions based on their constituents' best interest, it is still difficult to trust that there will not or have not already been serious problems within the act. A review of the past suggests it is likely that innocent people will be persecuted or that information could be leaked to non-security personnel.

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Winning over the Rainbows

By Kendrick J. Carson  Mustang Daily Staff Writer

The Cal Poly men’s tennis team posted an impressive victory in their home opener Saturday afternoon, defeating the University of Hawaii, 5-1, on Mustang Courts.

Cal Poly improved to 2-2 this season. The Rainbow Warriors fell to 1-0 on the year.

The Mustangs swept Hawaii in the doubles matches to take an early 1-0 lead. The No. 1 doubles combination of freshmen John Nguyen and sophomore Brett Van Linge defeated the University of Hawaii, 8-1.

Their play was decorated with lightning-fast serves and graceful drop shots.

“We just felt really good out there,” Nguyen said. “Once we got into a rhythm, the game just seemed to slow down and it seemed like we were too much for them to handle.”

Nguyen and Van Linge controlled the tempos of the match by dishing out hard serves. Although many of these were at a high velocity, the two were able to place them in unreturnable corners. Their aces were the key point in the doubles.

Those who attended the match witnessed the return of Cal Poly team leader Tony Petruzela. The player, who has been the Mustangs No. 1 singles player for the past two seasons, was sidelines for weeks with a leg injury. He showed no signs of rust on Saturday, as he and junior Davey Jones defeated Travis Smith and Jamie Muna, 8-1.

“It’s great to be back playing tennis at such a high level,” Meronoff said. “My return will definitely add another element to our team for opponents to deal with in dual matches.”

Hawaii bounced back and won the top two singles matches. Dubbik Pak picked up his fourth consecutive decision, and Ryan Sceats won his third straight. Pak defeated Nguyen, 6-2, 6-4, and Sceats swept Cal Poly’s No. 2 singles player Nick Tocz, 6-0, 6-3.

Though Cal Poly was unable to win at the top two seeds, the bottom of the lineup did its duty, winning the No. 3 through No. 6 matches. The Mustangs’ No. 3 singles player Matt Baca triumphed over Hawaii’s Byron Weinberg in a three-set match, 6-2, 3-6, 7-5. Baca also excelled in doubles play, defeating the team of Weinberg and Derrick Lajola.

Senior Jon Koller said. “We have not picked up our fourth consecutive victory, but, generally we kept the rhythm with our passing and catching.”

Every season opener has been against LMU, so the team knew what to expect from the game and were able to use it as an opportunity to practice their fundamental offensive skills.

“We gelled extremely well together as a team and communication was outstanding,” junior Sara Frascetti said. “There were a lot of awesome passes and we kept possession of the ball about 80 percent of the time.”

Saturday’s game also provided the team with a first chance to play with the new members and figure out exactly how everyone would come together.

“We’re learning to play with each other and feeling out the new players and basically the whole team,” Jantos said.

Based on the women’s performance, Lawliss noted only minor improvements that could be made and said that “everyone’s going over in practice, they execute.”

Defending a national championship is not an easy task, but the women are looking forward to the challenge of being the team everyone wants to beat.

While still early in the season, Cal Poly remains undefeated in the league. The underlying expectation by the team and coaches is that this could be the year to take No. 1.

“People say we deserve to win the championship this year,” said Zanoli.

The rugby team channeled their anticipation into single-minded focus for Saturday’s 51-8 trouncing of San Diego State. The Mustangs made the win follows back-to-back 72-0 against Stanford and 53-41 against Arizona. The team enter the game with most competitive yet.

With the pressure on, the rugby team played their best game, the rugby team defeated, the rugby team was reluctant to extra energy to the team,” Zanoli said.

“We were ready (for a tough game) but they were reluctant to hit unanswerable questions about the competition. As predicted, the game was the most competitive yet.

“This game has added extra energy to the team,” Head coach Charles Zanoli said.

The rugby team entered the game with anticipation into single-minded focus for Saturday’s 51-8 trouncing of San Diego State. The Mustangs made the

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