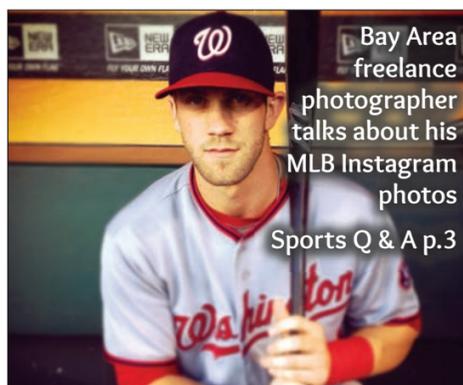


## INSIDE

P. 2 **A&E:** Kanye West's "Cruel Summer" fails to make a lasting impression in this album review

P. 3 **Sports:** Coach Mac discusses how the Spartan football team can beat Navy this Saturday and make history

P. 5 **Opinion:** Newest column of "Road Rage" writes how to deal with bad drivers



### ENGINEERING

# Engineering a high-tech ride



From left to right: SJSU alumni and Spherical Drive System engineers Max Ratner, Henry Li and Andrew Parmar developed a self-balancing, omni-directional, electric motorcycle that rides on spheres. **Photo by Derik Irvin / Spartan Daily**

SEE NEWS ON PAGE 6

### PROP 30

## Faculty gets 'green light' for Prop 30 campaign

*Academic Senate resolution plans to educate voters on impact of proposition failure*

By **Melanie Martinez**  
@meltinez

The Academic Senate passed resolution AS 1489 yesterday, which promotes voter education of the potential impacts of the failure or passage of Proposition 30 in November.

Students may face tuition hikes, inflated class sizes and class cancellations should Proposition 30 fail, according to information from the Academic Senate meeting on Monday.

Senate Chair Beth Von Till, said the resolution allows for SJSU faculty to promote education to their students about the funding for public education in the state, rather than for the specific proposition.

"It's not encouraging on which way to vote but promoting education on the proposition," Von Till said.

The Academic Senate's resolution calls for the education of the potential consequences of the proposition, should it fail, or the benefits students will face, should it pass.

"This election will take place at a time when California faces a fiscal crisis of unprecedented magnitude that has already resulted in deep cuts to the budgets of California's public schools and public institutions of higher education," stated the senate's resolution.

According to the resolution, the passage or failure of Proposition 30 will be a determining factor in how the CSU system handles future financial planning.

On September 19, the California State University Board of Trustees adopted a budget contingency plan should the proposition fail, according to the California State University office of public affairs.

The Senate resolution states that if the tax initiative fails, the California State University system would be cut by \$250 million, which would cost SJSU \$16.3 million.

"Overall, this cut would mean that state support for the CSU will have decreased by 40% since 2007-2008," the resolution stated.

President Mohammad Qayoumi told the Academic Senate that while he was optimistic the proposition would pass this November, he was preemptively planning for more budget cuts that aligned with the California State University system's proposed cuts.

"It's going to be a challenging year," Qayoumi said. "I hope Proposition 30 passes."

While budget cuts and tuition hikes are dependent on the failure of the proposition, students could be facing a 5 percent increase in tuition as soon as January 2013, should it fail.

"That would bring undergraduate tuition for one semester to \$3,135 and provide approximately \$58 million in revenue for 2012-2013," as stated in the Cal State Trustees budget.

Additionally, Qayoumi said graduate and non-resident students, as well as those with more than 17 units per semester, could see extra fee increases if the proposition fails.

SEE PROP 30 ON PAGE 4

### CAMPUS

## Student Union expansion awaits green certification

By **Eddie Fernandez**  
@SD\_EFernandez

As SJSU constructs its new Student Union, it awaits word for which LEED certification it will be awarded by the U.S. Green Building Council.

The council developed Leadership In Energy and Environmental Design, known as LEED, to provide building owners and operators with a framework for identifying and implementing practical and measurable green building design, construction, operations and maintenance solutions, according to the council's website.

Nick Williams, customer service representative for LEED, said that projects are based on a point system.

Williams adds that a project must reach 40-49 points to be certified.

"To become silver, you must have to earn between 50-59 points, gold is 60-79 points and platinum is anywhere from 80-100 points or earned credits earned on a project," Williams said.

However, SJSU's project certification ranges between 26-32, silver is 39-51, gold is 39-51 and platinum to be over 52 points, according to Cathy Busalacchi, executive director for the student union.

Under LEED in 2009, existing buildings, operations and maintenance are certified under a lower rating system. Platinum is now over 52 points, rather than a new building requiring 80 points, according to the council's website.

According to Williams, once a building has become certified, it takes five years before it goes through a recertification process.

Williams said points are determined by the amount of credits attempted and how many were denied throughout the review process, but all projects are different.



Students walk by the Student Union expansion construction site on Monday. SJSU is awaiting word on which LEED certification it will be awarded by the U.S. Green Building Council. **Photo by Jeffrey Cianci / Spartan Daily**

"It takes anywhere from up to 25 business days for that review team to return that information back to you," he said.

Busalacchi said the expansion is about being green-friendly.

"We're using low flush toilets, we'll be using less water, hopefully less electricity, we're having solar panels on the roof," she said.

The goal is to save resources in a variety of areas and better accommodate students, according to Busalacchi.

"What you're going to see is our water fountains will actually be refill stations, so instead of wasting water, students can actually have a water bottle refilled right there," she said.

Busalacchi believes this can be an educational feature for students to understand conservation — decreasing waste and using fewer resources.

"We're just trying to be more environmentally friendly," she said.

The old student union was built

before anyone thought about assessing the environment and generating power through other means, according to Busalacchi.

"The entire building in general will be lighter and (naturally) brighter in hopes of becoming more inviting to students," Busalacchi said.

Chris Lewis, a sophomore mechanical engineering major, believes the idea is good for SJSU.

"Anything that's good for the environment is good," Lewis said.

He said that it would be nice to have a place to hangout at, especially somewhere new.

Marissa Marapao, a freshmen child and adolescent development major, believes it will make the campus look nicer.

"It will provide more opportunities for students to hang there," Marapao said.

She said she will be excited to see the new expansion when it is completed in 2014.

Heath Blount, the regional

director of Northern California at Brightworks, is facilitating the LEED projects for the company, which is consulting with SJSU.

"We manage and facilitate the entire process," he said. "We work with both the design and construction teams."

Blount said the project typically begins with a general design meeting with the design team to investigate potential strategies that can be incorporated into the building.

Luis Alvarado, a junior political science major, said although he may not still be attending SJSU when construction completes, he looks forward to seeing the new expansion.

"The budget for (the expansion), it is kind of high, but at the end it pays off," he said. "You'll end up saving more... down the line."

Eddie Fernandez is a Spartan Daily senior staff writer. Follow him on Twitter @SD\_EFernandez.

ALBUM REVIEW

## Kanye West's 'Cruel Summer' all bang, no boom

Grade **C**

By Nina Tabios  
@SD\_NTabios

Kanye West's recent release "Cruel Summer" hits hard where it matters, but fails to make a lasting impression.

Kanye West doesn't aim for low stakes and I don't think he ever means to — which makes his latest project, "Cruel Summer" a disappointing feat, at least by Kanye standards.

The album released under his G.O.O.D. Music label — which stands for "Getting Out Our Dreams" — was released last week with much anticipation from fans and the hip-hop community alike.

"Cruel Summer" features 12 tracks that are all predominantly bass-heavy bangers, great for clubs and parties going and, if you're anything like me, disturbing quiet suburban neighborhoods.

West brought his G.O.O.D. Music label buddies along for the ride.

This includes newcomers, such as Big Sean and 2 Chainz, to long time veterans brought back from the music's abyss, such as Mase, John Legend and R. Kelly featured on the album

Though more of a compilation album, due to its very feature-artist nature, the project as a whole meets expectations. It hardly goes beyond it, which has been a West trademark in the previous years.

The most noteworthy songs — "Mercy," "The Clique," "I Don't Like" and "New God Flow" — were all tracks previously released over the web prior to the album's release.

All were huge radio and club hits, but that's about the extent of greatness this project offers.

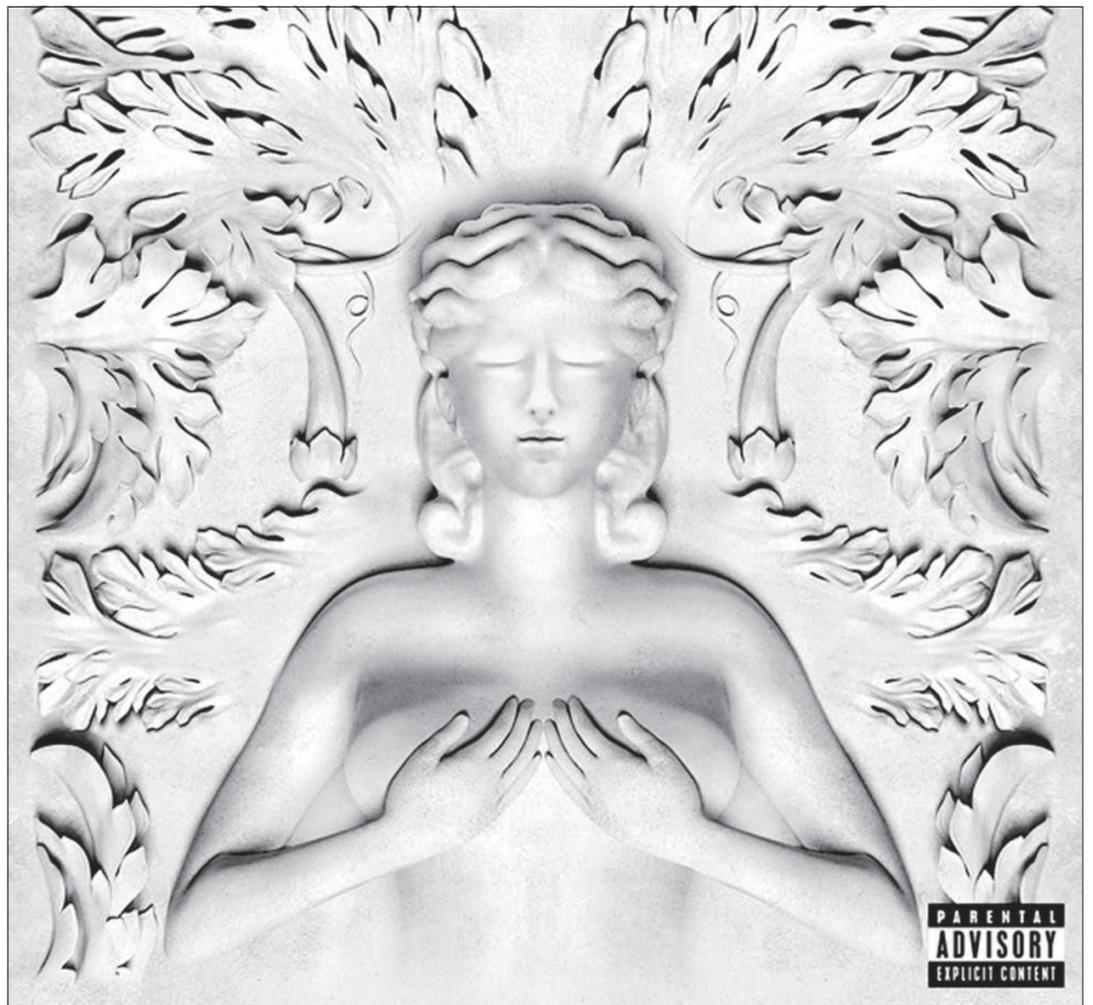
Most long-time West fans are accustomed to his whole projects exceeding the extravagance of his single-hits, and this is where the album hurts the most.

The few standouts in the meat of the album include, "Bliss," "Creepers" and "The Morning."

"Bliss," a track produced by British electronic producer Hudson Mohawke, offers the album's only taste of musical variety, but still carries that banger motif featured in "Cruel Summer."

Not to mention, Legend and G.O.O.D Music's only female member, Teyana Taylor, adds a nice layer of altos amid the sea of raps.

Kid Cudi stands solo on "Creepers," which sounds like a track taken straight from his 2010 release, "Man On The



"Cruel Summer" is rapper Kanye West's compilation album which features performers on his G.O.O.D. Music label such as Teyana Taylor, Kid Cudi, Pusha T and 2 Chainz. Photo courtesy of islanddefjam.com

Moon 2: The Legend of Mr. Rager," slow to kick in with spacey overtones.

Kid Cudi's contribution to "Cruel Summer" mulls down the preceding tracks' hyped booms and claps, but lyrically fits alongside G.O.O.D. Music's hustler montage:

"Alone I'll be, heart of a lion still shining on your sucka ass/ workin', workin', workin', for inner peace/ fighting for the freedom of my soul, I can hear the speech."

"The Morning" would probably be the next track in line to be released as a single.

It's a mix of rookies CyHi The Prynce and 2 Chainz, alongside veterans Common and Pusha T over low earthquake rumbles.

"The Morning" still falls in as second-string when compared to "Cruel Summer's" actual singles, but it's West's fiery flows in his verse that make the song a standout:

"I treat the label like money

from my shows/ G.O.O.D. would've been God except I added more 'oh's/ If I knew she was cheating, I'd still've bought her clothes."

He bum-rushes each song like it's someone's acceptance speech, and is usually the salvaging piece.

On "The Clique," one minute he pokes fun at girlfriend Kim Kardashian, then talks about race and wealth:

"I rather buy 80 gold chains and go ignorant/ I know Spike

Lee gone kill me, but let me finish/ blame it on the pigment, we living no limits."

Though more noted for his production, West never seems to fail on the lyrical capabilities he brings to the table.

Listening to "Cruel Summer" in its entirety, there aren't many grand statements made, but it does have hot lines.

Nina Tabios is the Spartan Daily sports editor. Follow her on Twitter at @SD\_NTabios.

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## Q&amp;A

## SJSU alumnus uses Instagram for MLB spread

By Nina Tabios  
@SD\_NTAbios

For the past year, SJSU alumnus and veteran freelance photographer Brad Mangin shot his most recent project with his newest piece of equipment: his iPhone.

Following the end of the 2012 playoffs and World Series, Mangin is set to release a book featuring a series of baseball photos he shot only using the popular iPhone and Android app, Instagram.

He graduated from SJSU in 1988 with a photojournalism degree and has worked with The Contra Costa Times, Associated Press and The Upper Deck Company, the company famous for the production of collectable MLB trading cards.

Mangin talked about how he started shooting photos using only his iPhone, taking photos of players who were and weren't familiar with Instagram and how it and social media are becoming vitals skills for professionals.

#### How did you start using Instagram?

I bought my first iPhone 4S in December. I don't shoot much during the winter because there isn't any baseball in the winter, so I just started goofing around with the app. I started taking pictures of my cats and my friends, and I had some friends that were using it, and it looked like fun.

#### When did you start shooting baseball photos with Instagram?

I started shooting baseball with Instagram during spring training in Scottsdale, Ariz. I was on assignment to shoot real pictures for Sports Illustrated (S.I.) and just started taking pictures and posting them on Instagram. I had a lot of fun with it, and my editor at the magazine encouraged me to keep shooting with it, who had the idea that we could do something with the photos in the magazine. Then the regular season started, and I came back to the Bay Area, and I just kept having more and more fun with it and getting nice responses from friends on Facebook and Instagram. It kind of snowballed from there.

#### Do you apply the same professional photography skills and techniques when you're taking Instagram photos?

It's hard to say. It helps that I'm a photographer, that I have an eye for pictures. I might see something — angle or light — to make a picture look better than someone who isn't a professional photographer. But the phones are all the same, no one can say, 'you got that picture because you have that big lens.' If you have an iPhone, you have an iPhone. It's just fun to be able to goof around with it. That's my main thing with this, it's just fun to play with it.

#### What makes the application so fun for you?

It's instant. I'll take a picture and if it's cool, I'll sit in the dugout and tone it, and I'm writing a caption for it

— it almost feels like I'm on deadline. It's like posting a real picture because hundreds of people are going to see it. I like to do it because it's like, 'this is what is happening in the dugout right now.'

#### What were some player reactions when you asked if you could take their photo for Instagram?

Some players knew what I was doing, some didn't. I went up to Bryce Harper of the (Washington) Nationals and told him I wanted to do his portrait. He just got out of batting practice so he was wearing a sweatshirt, but he wanted to take the photo in his full uniform. He was all excited about it, so I let him change into his uniform and the shot only took 30 seconds.

#### What kind of feedback did you receive from the S.I. spread?

It was well-received, a lot of people were making fun of me when I first started doing it. They were asking me, 'why are you doing that' or 'are you making any money,' but I would just tell them that I was having fun with it. I didn't tell anyone it was going to be a spread, but when people saw and they told liked it, it really validated what I was doing. There were some shots that couldn't stand up on their own, but when with other baseball photos, it kind of told a story on its own, so that was cool.

#### Do you think Instagram can be used to shoot other sports?

I think so. The thing with baseball is that there



Buster Posey of the San Francisco Giants gets ready for a game, shot by SJSU alumnus Brad Mangin. Mangin has used Instagram to shoot baseball for Sports Illustrated. Photo courtesy of Brad Mangin

are so many instances of down time — before a game, in the dugout — and there's also a lot of equipment. With baseball, the normal photographer credential gives you so much access right there on the field. It's also great because there's a game every day, which gives you a chance to shoot more variety. If something doesn't work, then you can go in the next time and try it again.

#### Considering what you did with the S.I. spread,

#### do you think Instagram has a place in photojournalism?

I think it can, I mean, I don't know what's going to happen with technology and social media in the next couple years. There are other photographers using the app — Ben Lowy is doing work, covering wars in the Middle East using Hipstamatic and Instagram. It's just another tool, and while some people may think it's a gimmick, it is photography, it is visual communi-

cation. In today's Internet age, there are still photographers doing video, I've got friends who are sports writers Instagramming while they're covering a game. We're all in the communications business and there are so many other outlets to communicate to readers — whether that's through Instagram, Twitter or a blog — but that's all part of the media process now.

Nina Tabios is the Spartan Daily sports editor. Follow on Twitter at @SD\_NTAbios.

## FOOTBALL

## Spartan win-streak on verge of school history

By Dennis Biles  
@Denny149

Riding a three-game winning streak for the first time since 2008, the SJSU football team will be looking to make school history this Saturday in Maryland as it attempts to become the first squad in SJSU history to earn four wins before the month of October.

Standing in its way will be the Navy Midshipmen (1-2), who is coming off its first win of the season after defeating the Virginia Military Institute Keydets 41-3 this past Saturday.

"This is going to be a great experience and day for our kids," said head coach Mike MacIntyre. "They respect what they are doing at Navy."

The Midshipmen were explosive on offense against Virginia Military Institute after having some trouble moving the ball and scoring points in their first two contests.

After losing to Notre Dame and Penn State by a combined score of 84-17, the Midshipmen racked up 510 yards of total offense, with 403 of those coming on the ground, according to Yahoo Sports.

Leading the charge for Navy was junior quarterback Trey Miller, who ran for 116 yards and three scores.

The Midshipmen are known for its option running attack and is ranked 10th in the nation in rushing yards per game at 265.7, according to Yahoo Sports.

"We have to be able to cause some turnovers," MacIntyre said. "That is a big, big key. That is a huge key to

stopping an option team."

Conversely, Navy is ranked 113th in the nation in passing yards per game, ahead of only five other schools, according to Yahoo Sports.

However, MacIntyre insisted that the Midshipmen have a passing attack that has improved over previous seasons.

### The whole program has changed from the president on down ... We are deeper and more experienced now.

#### Mike MacIntyre, SJSU football head coach

On defense, the Midshipmen rely on using a variety of packages and formations in order to create chaos and confusion for their offensive counterparts.

"They run a lot of different schemes, you have to play your assignments," MacIntyre said. "We will work hard on that."

For the second time this season, an SJSU offensive lineman is likely to face off against his

brother as senior tackle David Quessenberry may line up across the line of scrimmage from his younger brother sophomore outside linebacker Paul Quessenberry.

Against UC Davis, Spartan junior guard Nicholas Kaspar often battled with his older brother, Anthony Kaspar.

In its last outing, the Spartans earned an exciting 38-34 win over the San Diego State Aztecs thanks in large part to three touchdown tosses by junior quarterback David Fales in the final 12 minutes of the game.

Sophomore kick returner Tyler Ervin also played a big role by returning five kicks for 167 yards, including one for a 97-yard touchdown.

Ervin helped the Spartans set a single-game team record for most kickoff return yardage in a game at 253, and was named the WAC Special Teams Player of the Week, according to SJSU athletics.

If the Spartans win Saturday, it will be 4-1 for the first time since 2006.

Its performance so far this season is garnering some national attention as the Spartans added to its vote count in the weekly national coaches' poll. The Spartans, tied for 44th, now has two votes.

"The whole program has changed from the president on down," MacIntyre said. "The strength coaches, trainers and entire coaching staff work hard to improve this program. We are deeper and more experienced now. We don't think we are ever out of a game."

Dennis Biles is a Spartan Daily staff writer. Follow him on Twitter at @Denny149.

# SPARTANDAILY READ & WIN Ticket Give Away

## TODAY'S PHRASE Good Samaritan

Contest Rules:  
Find the hidden phrase of the day in a story or ad from Sept 24-27  
Bring at least 3 of 4 phrases of the day into Dwight Bentel Hall, Room 209 from 2-4 PM to be entered into the drawing to win two tickets to The Offspring Concert (Oct 2, 2012)

# THE OFFSPRING

This ad is not the phrase of the day

## Prop 30: Failure will have large impact on CSU, students

FROM PAGE 1

Yet, the Academic Senate was clear to state the benefits Proposition 30 could bring to the public education system if it passes.

Shawn Bibb, vice president and chief financial officer, said if the proposition passes in November, SJSU would witness \$132 million in revenue reduction for the current school year.

Bibb said this reduction would result in a \$249 semester fee reduction that would be reimbursed to students currently enrolled.

**It's going to be a challenging year. I hope Proposition 30 passes.**

Mohammad Qayoumi  
President of SJSU

He said students eligible for refunds would most likely receive refund checks next semester, if the proposition passes.

"I would like SJSU to rescind the 2012-2013 increase in \$132 million in projected revenue this year," Bibb said.

Political science professor Kenneth Peter, said SJSU must make efforts to spread the word about Proposition 30 to benefit SJSU students.

"For those of us who get

to know our students, we know that many of them work many hours," Peter said.

Many of his political science students work an average of 26 hours per week, which is not where he would like to see his students' focuses.

"The impact of letting people know is that this will assist our students to focus on their studies a bit more and on their jobs outside the university a little less," Peter said.

Calvin Worsnup, president of Associated Students, said Associated Students' campaign to reach out to students in voting efforts has been effective.

"For the most part, it does involve a lot of education," Worsnup said.

Yet, he said the more he speaks to fellow students about Proposition 30, the more he sees them retaining information.

While the California State University system is promoting education for Proposition 30 and some remain hopeful about its passing, Bibb said he is unsure students will be able to look forward to refunds quite yet.

"Nothing is guaranteed, ever," Bibb said. "The words are there but the actions aren't there yet."

Melanie Martinez is a Spartan Daily staff writer. Follow her on Twitter @meltinez

### INTERNATIONAL NEWS

## Small Nicaragua town hopes for a new canal

By Tim Johnson  
McClatchy Tribune

SAN JUAN, Nicaragua — Boom and bust cycles are no stranger to this small town, which once played an outsized role in distant affairs.

Set in a protected harbor in Nicaragua's remote southeast corner, the town in the mid-19th century was briefly the most important port in Central America. Tens of thousands of Americans with gold fever passed by its wharf.

Then a bust hit. Tropical jungle thick with jaguar and peccary overtook the town as civil war gripped Nicaragua. Three decades ago, just one family remained.

Now San Juan may be on the cusp of another boom.

The government is putting the finishing touches on a 4,900-foot runway and airport valued at \$12 million, part of a race to develop the region as it maneuvers with neighboring Costa Rica over a disputed border. Shimmering mirage-like is an even greater yearning: Nicaragua again talks of building an inter-oceanic waterway to compete with the Panama Canal, with one terminus here.

The waterway would allow ships to transit from the Atlantic up the San Juan River to Lake Nicaragua, then across an 11-mile isthmus to the Pacific Ocean, or vice versa.

Even if the waterway remains an illusion — skeptics abound — the 1,800 people who now reside in San Juan voice gratitude for the renewed attention. Less than half a decade ago, boats provided the only access to the town. A single telephone was the lifeline to the outside world. Electricity flickered on and off.

Now there is reliable power and blanket cellular telephone service. The airport has cut the journey to the rest of Nicaragua and opened the doors to tourists, who come for sport fishing,



The San Juan River marks the disputed border between Nicaragua and Costa Rica. Photo by Photo by Tim Johnson / MCT

bird watching and rousting around historic ruins.

"This corner of Nicaragua is a treasure trove," said Eden Pastora, a one-time guerrilla commander who is the region's biggest promoter.

President Daniel Ortega, head of the leftist Sandinista Front, appointed Pastora to head a commission seeking global financing for the \$30 billion inter-oceanic waterway. Pastora, for his part, is delving into all manner of private development, including plans to build an international marina with scores of slips.

San Juan lies below the Caribbean hurricane belt, offering a safe harbor for yachts seeking shelter or long-term harborage.

Pastora, a fit-looking 75-year-old with a shock of white hair, said the airport, which is operational but so new that it has yet to be inaugurated, would facilitate the use of the marina.

"The gentlemen millionaires will come on their executive jets, get on

their yachts and go all over the Caribbean," Pastora said. "All kinds and sizes of yachts will come — and they will pay."

Pastora spoke in the dining room of the only hotel able to handle an inflow of tourists, the Rio Indio Lodge. At other tables were sports fishermen from Missouri, Washington state and Florida, eager to reel in the tarpon and snook abundant in local waters.

The lodge sits within the boundaries of the Indio Maiz Biological Reserve, an 850,000-acre preserve that is one of the largest untouched tracts in Central America.

"The intention of the government and our intention is that this becomes a world-class destination for birding, for nature," said Alfredo Lopez, a physician who is the lodge's chief executive. "The sport fishing is fabulous."

Pastora, for his part, looked around the half-empty dining room and said a boom is in the offing.

"This hotel, in two months' time, will be jammed," he said.

# Classifieds

## Announcements

- Need a roommate?
- Want to sell your books?
- Looking for furniture?
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Students can place classifieds in the Spartan Daily for free! Visit us at Dwight Bentel Hall, Room 209 and tell us what you want to post. This must be done in person and an SJSU ID is required. Your classified will run for a maximum of eight publication days unless otherwise specified.

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## UNIVERSAL Sudoku Puzzle

Complete the grid so that every row, column and 3x3 box contains every digit from 1 to 9 inclusively.

	4							1		
				6	9				3	
	2	9		7	1					
	8	2				7	4			
5										9
		7	5					3	1	
			6	5				9	7	
	9		1	2						
		8								6

DIFFICULTY RATING: ★★☆☆☆

### How To Play

Complete the grid so that every row, column and 3 by 3 box contains every digit from 1 to 9 inclusively. Check back daily for new sudoku puzzles and solutions.

### Previous Sudoku Solution

5	2	3	9	6	1	4	8	7
8	7	9	4	5	2	6	1	3
4	1	6	3	8	7	9	2	5
7	5	2	8	1	9	3	6	4
6	4	1	7	3	5	8	9	2
9	3	8	2	4	6	7	5	1
2	6	4	1	9	3	5	7	8
3	9	7	5	2	8	1	4	6
1	8	5	6	7	4	2	3	9

## Today's Crossword Puzzle

1	2	3	4	5	6	7	8	9	10	11	12	13	
14				15					16				
17					18					19			
20			21					22					
23							24			25	26	27	
			28		29	30	31		32		33		
34	35	36		37				38			39		
40			41						42	43			
44						45					46		
47				48	49		50				51		
52				53		54			55		56	57	58
		59	60					61	62	63			
64	65							66				67	
68								69				70	
71								72					73

### Previous Puzzle Answer:

1	M	I	S	S	A	B	I	T	C	A	S	H		
2	T	H	I	G	S	I	S	A	O	T	T	O		
3	I	B	O	N	E	S	T	E	A	K	F	R	A	T
4	E	R	E	N	E	M	A	E	F	I	L	E		
5	W	I	W	O	C	O	R	E	A	L	L	E		
6	P	A	C	A	T	O	R	I	E					
7	Z	R	A	T	O	H	A	T	C	O	T	E	R	
8	R	A	I	N	E	R	I	E	A	U	R	A		
9	F	R	A	N	C	R	E	M	S	K	N	A	P	
10	T	O	U	R	D	E	C	R	E	A	S	E		
11	A	G	E	N	O	A	S	R	A	E				
12	B	U	L	B	T	W	O	P	A	S	H	A	S	
13	B	A	B	A	T	A	B	L	E	C	L	O	T	H
14	E	N	O	L	A	L	O	E	T	A	B	O	O	
15	Y	O	W	L	N	E	E	D	S	T	O	M	P	

### ACROSS

- 1 Hoover, for one
- 4 Hardly refined or genteel
- 9 Essential
- 14 State whose cap. is Boise
- 15 Kidney-related
- 16 "In an \_\_\_ world ..."
- 17 Bottom line
- 18 Thing you don't want to twist
- 19 Like a pretty lass
- 20 React badly to boredom
- 23 Iron setting
- 24 "That's all \_\_\_ wrote!"
- 25 It may be concealed cosmetically
- 28 Bolliwick
- 32 New York's \_\_\_ Island
- 34 Withdrawal site, for short
- 37 Assumed name
- 39 Dark suit bane
- 40 What many office buildings don't include
- 44 Kinks song
- 45 Same-old, same-old
- 46 Con's vote
- 47 Numb, as a foot
- 50 Come after
- 52 Put in stitches
- 53 Cul-de-\_\_\_
- 55 Small anchor
- 59 Blow one's top
- 64 Ragged mountain ridge
- 66 Speak pompously
- 67 Practical joke
- 68 Lip-curling look
- 69 Pottery furnaces
- 70 Put to work
- 71 Conceals with the hand
- 72 Extraordinary brilliance
- 73 Degree of success?

### DOWN

- 1 Spinal column features (Var.)
- 2 Kind of supervision
- 3 Actress Van Doren
- 4 Seafood salad ingredient, perhaps
- 5 Flat fee
- 6 Pharaoh's symbol
- 7 Half-off event
- 8 Bunches
- 9 Gravy morsel
- 10 Heathen's figurine
- 11 Tickle or fingle, e.g.
- 12 Beach bum's hue
- 13 Crafty
- 21 Cause damage to
- 22 Relaxed sounds?
- 26 Salami selection
- 27 Journal item
- 29 Beverage for the inn crowd?
- 30 In \_\_\_ of (replacing)
- 31 Parson's place
- 33 Nothing alternative
- 34 Book of maps
- 35 "All \_\_\_ in favor ..."
- 36 It turns the grindstone
- 38 Type of gun
- 41 Filmom's "Norma \_\_\_"
- 42 Possesses
- 43 Most subject to chance
- 48 Banana oil and others
- 49 Butter portion
- 51 Sinuous shocker
- 54 Fail under pressure, in slang
- 56 Uncover, as information
- 57 Grind together, as teeth
- 58 Encouraged (with "on")
- 60 Agenda unit
- 61 Music's Clapton or Carmen
- 62 Curtain \_\_\_ (post-show appearance)
- 63 Volcano in Sicily
- 64 Cleo's killer
- 65 Molecule found in cells



## Commuting with rude drivers

I commute 55 miles to get to school, starting my journey in Walnut Creek in the East Bay, and finishing in Downtown San Jose.

I transferred to SJSU last fall from a community college and lived in San Jose last year, but decided to stay at home for my senior year, mostly to save money so I could leave college without accumulating any debt.

There are a lot of downsides to doing this, including making it more difficult to create meaningful relationships with people on campus, but I have decided to do the best I can while at school.

One thing that I cannot stand, however, is dealing with rude drivers for two



Jonathan Roisman's column appears every other Tuesday.

and a half hours daily, four days a week.

As any user of the freeway knows, aggressive drivers can be frustrating and more importantly, dangerous.

During the past six weeks I have become acutely aware of the different types of

drivers that can make any commute a living hell.

There are a few common types of rude drivers that one will encounter on the freeway.

*The person who doesn't signal:*

I would argue these drivers are much more dangerous than people who speed.

We have archaic speed limits because modern cars can safely go 80 mph on the freeway, but it is much more difficult to account for someone who decides to change lanes without any warning.

I have never understood people who do not signal — how difficult is to flick your wrist and let the other drivers around know what

you are going to do?

I once saw a car cause an accident because it decided to merge at 65 mph without signaling in the middle of the freeway.

Luckily, it looked like the damage was not too severe.

*The person who illegally uses the carpool lane:*

These people infuriate me.

The drivers who do this must think they are more important than everyone else on the road.

There is nothing stopping anyone from using the carpool lane, and while one could argue the California Highway Patrol will stop them, it just makes for a good laugh considering the CHP is usually nowhere to be found on the highway.

I think most drivers have been tempted to use the carpool lane when they were not supposed to, but if we all did that the lane would slow to a crawl like the rest of the road during commute hours.

It is understandable that you want to get to your destination as fast as possible, but to the people who break this law: stop being a jackass and please follow the rules. You are not any

**I once saw a car cause an accident because it decided to merge at 65 mph without signaling in the middle of the freeway.**

better than the rest of us.

*The person who weaves in and out of lanes:*

These drivers think they can get around traffic by moving in and out of lanes that are moving the fastest.

If they were patient they would just wait in the far-left lane, known as the fast lane, and tough it out, but for some reason these people feel like they have to be in constant motion or they will die, like a shark.

Personally, I can tolerate these bad drivers the most, because it is usually more comical than any-

thing else to watch them get 20 feet ahead of everyone else thinking they have accomplished something.

However, if they share the trait of not signaling, this can be especially dangerous.

*The person who drives too slow:*

This one is not defensible on my part using a legal basis, but it is ridiculous when drivers can safely go faster than 65 mph and yet they choose to slow down traffic by driving in the fast lane.

I understand they are not breaking the law, but for the love of god, please drive in a different lane.

Traffic is unnecessarily slowed down when a driver chooses to cut off all other drivers route of escape.

There is a reason signs are posted on the road for slower traffic to move right, and I recommend people heed these messages.

A lot of people speed as it is, so if you are going to be a good Samaritan and slow down your car when the speedometer hits 66, please get out of the way. More karma for you.

Jonathan Roisman is a Spartan Daily staff writer. Follow him on Twitter at @JonRoisman.

## In My Experience : Helping a friend through recovery



Kelsey Lynne Lester-Perry's column appears every Tuesday.

“In My Experience” is an all-around advice column where expert Kelsey answers your questions based on her life experience.

**DISCLAIMER:**  
Please submit all questions to [spartandaily@gmail.com](mailto:spartandaily@gmail.com), which will be kept anonymous and answered every Tuesday by Kelsey.

Dear Kelsey,

**Please help me help my best friend help himself. To be perfectly frank, my best friend and I have both recently quit using heavy drugs. I'm currently in a recovery program, and he's doing it all on his own — which is causing him an immense amount of misery and depression. I really don't know how to deal with this, because I can't push him into doing anything, and he won't help himself. Am I just going to have to accept this, or is there anything I can do? And if I have to accept it, how can I?**

Sincerely and severely,

Stressed out on the South Side

My dearest — and I mean dearest — stressed out on the South Side,

I feel like I know you.  
I feel like your best friend.

And if he or she is anything like what I am imagining, you are going to have to let go.

You don't have to let go of the friendship, but for your sake and your best friend's, let go of the need to save this person.

I swear that will make this process that much easier.

You mention you are on the South Side, which gives me a relatively good guess as to what substance you and your best friend are currently detoxing from and I have been there and done that, 100 percent cold turkey in fact.

I have to say — your friend is nuts for trying it.

You are being very smart by getting professional help.

Doctors prescribe medication for withdrawals for a reason.

Suboxone, for example, if used correctly and for many months, will actually repair brain synapses broken during the process of heroin addiction. I wish your best friend could see this too (hell, I wish I could have seen it when I went through my first detox).

You said it better than I could have, stressed out — “I can't push him into doing anything, and he won't help himself.”

This feeling of desperation is probably magnified by your efforts to get and stay clean and his lax efforts to do the same.

Getting off hard drugs is hard, but my advice to you right now is worry about your own sobriety until your best

friend's depression gets to a point that may be suicidal — then step in.

Is there a doctor where he is located that you can call?

911 is always an option, as is contacting his family.

That last idea may at first make you feel like you are disrespecting your friend, but you can always say, “hey, it was a matter of life and death and you gave me no other options.”

I'm deeply sorry to have brought suicide into the mix just now, but I am just being realistic.

It is proven that quitting cold turkey not only leads to severe depression, but possibly other medical complications as well.

So, stressed out, know that your feelings of helplessness are normal and know that you are doing everything you can to help your best friend.

I sincerely hope your recovery goes well, and I especially hope your best friend survives his recovery as well.

One last word of advice, as you mentioned just accepting your friend's choices: don't.

Don't ever just accept a fate that seems less than savory.

There are always options, it may just take time for them to work, to get through to your friend.

Stay strong my fellow addict and may your sober life bring you joys beyond those that drugs have ever brought you.

Love,  
Kelsey

Kelsey Lynne Lester-Perry is a Spartan Daily senior staff writer. Follow her on Twitter at @kelsey\_lynne.

**Are you in a bind? Need a voice of reason? Just ask Kelsey in her advice column!**

“In My Experience” runs every Tuesday. You can send in your question anonymously, and if selected you could win a prize.

Submit your question to [spartandaily@gmail.com](mailto:spartandaily@gmail.com), or visit Spartan Daily office DBH 209

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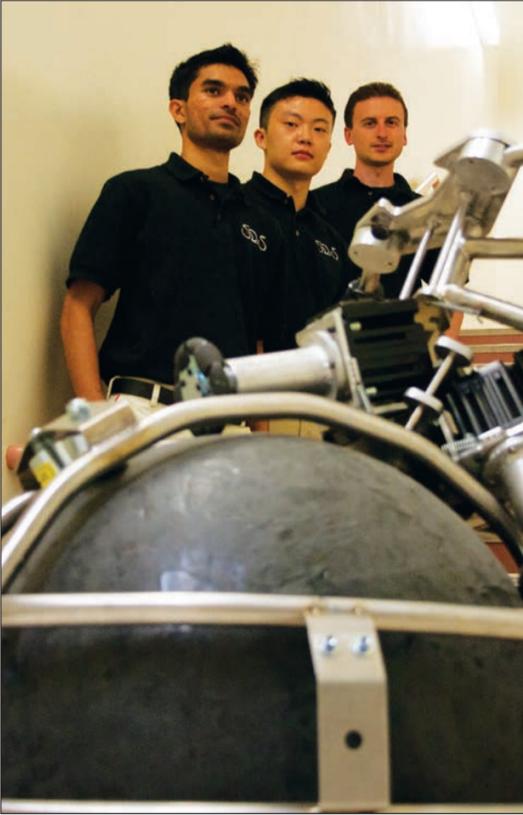
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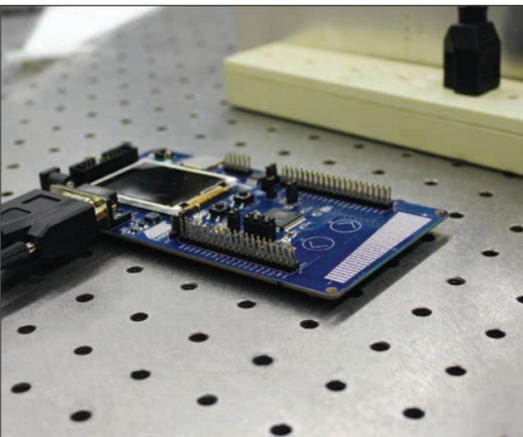
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Spherical Drive System team members Andrew Parmar, Henry Li and Max Ratner have spent more than two years building a futuristic electric motorcycle. **Photo by Derik Irvin / Spartan Daily**



Microcontroller technology was used to program the drive system of the motorcycle. **Photo by Jacque Orvis / Spartan Daily**



Modeled after the car from the science-fiction film "iRobot," the electric motorcycle is self-balancing and can travel in any direction on a flat surface. **Photo by Jacque Orvis / Spartan Daily**



The motorcycle requires intelligent and reliable battery sources to power the motors, controllers and sensors. **Photo by Jacque Orvis / Spartan Daily**

## SpartaGuide

### What I Practiced Over Summer Vacation!

The Listening Hour concert series  
**Today, Sept. 25**  
12:30 to 1:15 p.m.  
Music building Concert Hall  
Free admission

### Green Talk Speakers series: Ray Wong, Santa Clara Valley Water District

College of Engineering  
Wednesday, Sept. 26  
12 to 1:15 p.m.  
Engineering Room 189  
Topic: Bay Area Regional Desalinization Project

### What are the Elements of a Spiritual Life?

SJSpirit  
Wednesday, Sept. 26  
3 to 4:15 p.m.  
Pacifica room, Student Union

### Chemistry Department Seminar: Dr. Melody Esfandiari

Chemistry Department  
Wednesday, Sept. 26  
4:30 p.m.  
Duncan Hall 135  
"Lights... Camera... Chemistry! Single-Molecule Imaging Tools for Studying Reaction Mechanisms One Molecule at a Time."

### Let's Take Action for Sustainability! Yeah!

Environmental Club  
Wednesday, Sept. 26  
5 to 6:15 p.m.  
Montalvo room, Student Union 3rd floor

SpartaGuide is provided to students, staff and faculty, free of charge. The deadline to submit is at noon, three working days prior to desired publication date. Entry forms are available in Spartan Daily, DBH 209. Send emails to [spartandailyeditorial@sjsu.edu](mailto:spartandailyeditorial@sjsu.edu) titled "SpartaGuide." Space restrictions may require editing or exclusion of submissions. Entry is not guaranteed. Entries are printed in order of which they are received.

## ENGINEERING

# 'iRobot' motorcycle spins out of SJSU

## Engineering students' projects roll into one futuristic spherical bike

By Jacque Orvis  
@SD\_jorvis

An SJSU engineering team is in the final stages of building a \$60,000 omni-directional motorcycle - a one-person bike that moves in any direction on a flat surface.

It has taken the Spherical Drive System team nearly two years to complete the self-balancing electric bike inspired by the futuristic car driven by Will Smith in the 2004 science fiction film iRobot.

"A lot of people told us that it wouldn't work," said Andrew Parmar, SJSU alumnus and team member. "But we wanted to do something crazy - fail spectacularly if we have to."

"We had to literally reinvent the wheel," Parmar said, adding that the bike does not move like a modern vehicle with conventional wheels.

According to SJSU alumnus and team member Max Ratner, the bike works by powering sets of rollers programmed to move in different directions.

He said a set of rollers, or omni-wheels, in the front and one in the back work together to spin the spherical wheels in whichever direction the rider wants, even side-to-side.

To nail down factors like weight distribution and control systems, Ratner said the team built a series of models, starting with a small wooden one then designing powered models to demonstrate the science behind the technology.

He said it was a series of four different senior projects rolled into one and concept models were enough to satisfy the requirements for their classes; they didn't need to build the bike to graduate.

"As a school team, we wanted to raise that bar," Parmar said. "We didn't want to leave a single aspect out."

The team started off with five mechanical engineers then expanded to 14 people: eight mechanical engineers, four electrical engineers and two computer engineers.

Eamonn Clerkin, mechanical engineer at Wolfe Engineering and SJSU mechanical engineering graduate, said he was excited to join the team.

While he wasn't there for the "initial brainstorm," Clerkin said he accepted the offer to join the team because of the "ambitious nature" of the project.

"There were times where initial concepts/designs didn't work, and we would just have to think it through."

Ratner said the team spent the first five months on design concepts and funding before building the bike.

The team created a website, a Facebook page and sponsorship packets to advertise the project then scouted local tech companies for funding at career fairs and technology conferences, according to Parmar.

"I've never seen a team fund-raise so aggressively," said Winncy Du, SJSU advisor to the department of mechanical and aerospace engineering.

Parmar said the team approached companies at an SJSU job fair for funding, sealing a deal with the SKF Group to manufacture bearings for the bike.

According to its website, the SKF Group is a global supplier of bearings, seals and lubrication systems for industrial businesses.

Parmar added that they won over other Silicon Valley companies the same way, such as Mass Precision, Inc., for the omni-wheels and Wolfe Engineering, Inc., for the bike frame.

"We have such great resources living in the Silicon Valley," team member Henry Li said. "The biggest resource is the Silicon Valley."

According to Parmar, the CEO of Wolfe Engineering originally offered the team members jobs when they approached his booth at a biomedical convention in San Jose.

"We rejected the offer then asked for money," Parmar said.

Ratner said four team members later took the jobs.

"We didn't have a shortage of job offers when we were doing the project," he said.

However, sponsorships weren't as easy to score at first, according to Parmar.

He said their first sponsor turned them down because they didn't think the team was ready enough.

"You can't just show up and expect to get stuff," Ratner said. "Essentially the first three to four months was spent getting us ready for pitching to all these sponsors."

Parmar said eventually their funding pitches cleaned up, and the sponsorship rejections helped them improve their storytelling and presentation skills.

"From that failure, we learned the most," Li said.

Jacque Orvis is a Spartan Daily staff writer. Follow her on Twitter at @jorvis.