Emile Nelson
Editor in Chief

Each year, Isla Vista sees a wave of new bands in all genres — and as quick as they come, they’re gone. Very few bands survive the first year here in I.V., let alone escape the bubble to achieve any sort of actual fame. But, somehow, FMLYNBD has not only survived almost three years together, but they’ve already played an international tour with Milky Chance, written a song for the FIFA 15 soundtrack, performed at both the X-Games and U.S. Open and thereby achieved a level of celebrity that few I.V. bands will ever attain.

The band features Mac Montgomery on vocals and guitar, Braylyn Montgomery on vocals, Eric Mason on keyboard and Ethan Davis on drums. The four have been playing together since 2013, when they got their start in the beachside paradise that is Isla Vista.

“Our first few shows were house parties in Isla Vista, so we had something to bounce off of,” Eric said. “There are a lot of bands doing reggae-style music and a lot of DJs doing dance music, so our slightly different style, I think people were really into it.”

The band describes their slighty different style as “Indie Electronic/Music Rush/New Wave Speed Folk/Glitter Glam/New Metal Electronic/Dark Thrash/New Wave Speed Gum Glitter Folk.”

“We really know ourselves,” Braylyn said.

“But on a more serious note, we all really like M83 a lot. M83 and Passion Pit are probably some of our biggest influences,” Davis said, as he cracked up an enormous carrot.

The simultaneously nondescript and extremely specific style that FMLYNBD calls their own has carried them to national, even international, recognition over the past couple of years.

Following their initial success in Isla Vista, FMLYNBD broke out with their first large-scale show at the Huntington Beach U.S. Surf Open, an event that draws nearly half a million people over nine days. This performance is showcased in the band’s music video for “Come Alive,” which boasts over 1.3 million views on YouTube.

“Come Alive” is also featured on the enormously popular video game FIFA 15 alongside songs by artists like Avicii, Foster the People, Macklemore and Ryan Lewis.

According to Braylyn and Mac, FMLYNBD was selected to be one of the few artists on FIFA not only because of the popularity and quality of their music, but because of their intimate relationship with the sport of soccer as a whole.

“We’re really good at soccer,” Braylyn said.

“Probably some of the best in the industry,” Mac continued.

In addition to FIFA, FMLYNBD’s music has been featured in commercials (one by Volvo), movie and television show trailers and to other artists’ music, such as Dirty South’s song “With You.”

But their achievements don’t stop there. FMLYNBD recently returned from an international tour with Milky Chance, the German group famous for singles like “Stolen Dance” and “Down by the River.”

According to the band, this past year has been a redefining period.

“We took it six or eight months off, then we came out with some new music and played some shows here and there until the tour with Milky Chance,” Mac said. “That was really fun — it was sold out, so that was like a big thing. That tour was essentially a brand new band and we were playing the best shows we’ve ever played.”

After topping The Hype Machine’s list with their cover of “Where Is My Mind” and coming off the sold-out tour, FMLYNBD is looking to release another EP, thereby adding even more material to an already stacked portfolio of music.

Additionally, according to Davis, there is a plethora of FMLYNBD’s music available online at almost any major music hosting website, followed by a “FMLYNBD.” Not only that, but Mac said, “You gotta find Eric. He’ll burn you a CD.”

Unfortunately, this fame is not without its consequences, as the band said they can barely play shows in Isla Vista anymore, because they get shut down so quickly due to the crowds. Luckily for you, reader, you still have the chance to see them in their hometown at our Welcome to Paradise Carnival on Sept. 22 from 1-4 in Storke Plaza on the UCSB campus — check out the event page on Facebook at “Welcome to Paradise Carnival feat. FMLYNBD.”

“We’re gonna party on the 22nd,” Mac said. “After you finish your homework, we’ll party.”

FMLYNBD may not be the newest Sublime-inspired/Deep House/ Swing Trap band that house parties will be seeing this year, but they are quickly becoming a staple of Isla Vista culture that people will look back on and say, “Wow! Can you believe I missed the chance to see those guys when they were just getting started?” I must be some kind of Bozo.”

Don’t be a Bozo. Come see FMLYNBD for free on Sept. 22.
IMPROVISED COMEDY
FRIDAY NIGHTS - 8PM
Embarcadero Hall - $3

Thursday, September 17, 2015
Daily Nexus
Page 2

IMPROVABILITY
WELCOMES YOU BACK!
UCSB’s national award-winning improv troupe
Friday, September 25, 8 PM
Embarcadero Hall, Isla Vista
$3

MAGIC LANTERN FILMS presents
SPY starring Melissa McCarthy & Jude Law
Friday, September 25 7/10 PM
Monday, September 28 7/10 PM
IV Theater
$4

PEACE DAY SANTA BARBARA
(in celebration of the world-wide International Day of Peace)
Sunday, Sept. 20th, 3-5pm at the 1st Presbyterian Church, 21 Constance Ave., Santa Barbara
Theme will be “Peace- Beyond a Ceasefire” an uplifting, secular, non-political exploration of paths to peace. Guest speakers, short videos, live music, supervised children’s activities (crafts area), snacks and beverages. FREE.

Interested in working for social justice while building your resume? Volunteer with the Women, Gender, & Sexual Equity Dept
Applications due Monday, Sept. 28th
For more info or to apply, email Jamie. File@sa.ucsb.edu
Applications also available at the Women’s Center front desk, 1220 Student Resource Building
Become part of a team working to make UCSB a more welcoming & just place for all!

UCSB Arts & Lectures presents
Dale Russakov, veteran journalist and author of The Prize, an essential new book on education in America
Saturday, October 3, 3:00 p.m. at UCSB Campbell Hall
A cautionary tale relevant to anyone who cares about the future of education in America
Books will be available for purchase and signing

2015 On-Campus Job & Internship Fair
Tuesday, September 22, 2015
from 9:00am – 12:00pm
The On-Campus Job & Internship Fair hosts a variety of on-campus departments and organizations who have part-time, work study, internship and research positions open throughout the year. This is a wonderful opportunity to bring awareness to your department and fill any open positions. Last year’s event was attended by over 1,000 students looking to find positions. Registration for this event is FREE for all on-campus departments and organizations.

Weather
The Weatherman’s godmother gave birth to a beautiful baby boy yesterday, so ... ze guesses this makes hir ... a ... Weathergod ...?

Tomorrow’s Forecast: May Weathergod have mercy on your soul.
Dear Students:

On behalf of our UC Santa Barbara community, it brings me great joy to welcome our new and returning students to the 2015-16 academic year. We are thrilled to have you with us on campus, and we are excited to help nurture your academic strengths, encourage your personal growth, and inspire your creativity.

As students, you are the cornerstone of our campus community and our partners in advancing UC Santa Barbara’s stature as a preeminent world-class research university. Our campus continually earns top rankings in many national and international reports, in terms of our academic quality, diversity, and environmental sustainability. Just this month, our campus was once again ranked among the Top 10 public universities in the country by U.S. News & World Report. And last month, Times Higher Education published an article ranking UC Santa Barbara No. 7 worldwide for producing Nobel laureates in the 21st century. Six of our faculty members have won Nobel Prizes, and one of our alumnae is also among the distinguished roster of Nobel laureates.

As our returning students already know, learning at UC Santa Barbara extends far beyond the classroom. We also learn a great deal from each other. We encourage our students — and all members of our academic community — to be full participants in the free and open exchange of ideas and viewpoints that characterizes our university. We commit ourselves to upholding the values we cherish as an academic institution, and to fostering an atmosphere that is respectful, supportive, and welcoming to all. The diversity of our backgrounds, talents, and perspectives will continue to enrich us all as we live and learn together.

There are countless ways for you to get involved and make connections with each other, such as through research and creative projects, student government, campus organizations, intercollegiate athletics and intramural sports, volunteer work in our community, and much more. I encourage you to take advantage of all that UC Santa Barbara has to offer during your time here.

As our campus is closely connected with our surrounding neighborhoods, I also encourage you to engage with our community as good neighbors and good stewards.

We are proud to have you as part of our UC Santa Barbara family, and my wife, Dilling, and I look forward to seeing you on campus.

Sincerely,

Henry T. Yang
Chancellor
An Update on Alagie Jammeh’s Story

The ostricized student tells the Nexus how his situation has evolved since this July.

The Nexus printed a story titled “How Social Media Created a Political Enemy” on July 30 that told the unique story of a UCSB student named Alagie Jammeh. Almost two months later, Jammeh sat down with the Nexus to give an update on this developing situation.

In brief, Jammeh’s distant uncle, President Yahya Jammeh of the Gambia is quoted multiple times as having expressed a violent hatred for the LGBTQ community, thus Jammeh’s public support of the LGBTQ community was taken as direct dissent. Now, Jammeh faces imprisonment or death if he ever returns to his home country.

The post that Jammeh initially wrote on his Facebook said, “No one should be denied their fundamental basic human rights because of their sexuality.”

According to Jammeh, this post was not intended as an attack on the Gambian government, nor on any person in particular, rather, it was intended as a statement of support for a close friend who had discovered was part of the LGBTQ community.

“I did this because it was the right thing to do. And I didn’t even really think about it, I just did it as normal,” Jammeh said. “So for someone to take this whole story and think, ‘Alagie challenged the government’, or something like that and make me a wanted person in the Gambia, it’s rather unfortunate.”

After having been stripped of his scholarship from the Gambia, Jammeh began a gofundme campaign (gofundme.com/zzc9s24) to fund his education, which, as of today, has raised $15,985 of the $42,000 goal.

“I’m still working on the gofundme campaign... I didn’t even expect to get to 15k when I started,” Jammeh said. “But what I’ve gotten and the messages I’ve gotten from people, it’s been kind of overwhelming and really nice, actually.”

Jammeh said UCSB has allowed him to register for classes in the fall, thereby giving him time to continue raising funds without having to withdraw from the university.

“The school is letting me sign up and go to school and continue raising the money,” Jammeh said. “With that I’m gonna be owing them a lot of money again, so I have to come up with that money to pay them back, so it’s like a loan.”

Jammeh has also found housing through the university for the upcoming year, which he said is a vast improvement from living in his car for four months last year.

Nonetheless, Jammeh still faces conflict with his friends, relatives and government from his home country.

“I’m still having issues with people in the Gambian government and my parents, you know telling me what I did was wrong, that I have to go to the media and tell them I don’t mean to say that, that I regret everything I said,” Jammeh said.

“But the truth is I did what I did because I believed in it.”

For the full story, see dailynexus.com.
Santa Barbara Ad Aims to Rebrand Isla Vista

In the hopes of discouraging crime and irresponsible partying, a Santa Barbara commercial aims to send the message that the Goleta college town is reformed.

Abboud said the campaign is a "massive mistake" because it does not feature elected Isla Vistans. "They could use some prominent Isla Vistans in it and not elected officials and public officials from other cities," Abboud said. "Maybe some of the younger looking people in the ad who look college-aged are Isla Vistans, but ... we have a parks board of five people who live in Isla Vista. We have student elected leadership from A.S. None of them are in it."

Dudley said the campaign sets an expectation, and that certain behaviors are not condoned in I.V. "If people see that's what I.V. stands for, they're not going to come here with the notion of destroying and thinking that the community itself is going to support the kinds of activities that have been going on there that negatively impact public safety," Dudley said.

Abboud said few people will be exposed to the ad because many people are choosing mediums such as Netflix and Hulu, and this ad doesn't seem like it would reach these people. "The majority of media consumed in Isla Vista is not through TV and cable TV in the traditional sense," Abboud said. "A lot of people have transitioned to other sources like Netflix and Hulu, and this ad doesn't seem like it would reach these people."

Abboud said he does not believe an ad will convince visitors not to come to I.V. or not to commit crimes during their stay. "It would seem like it meets those ends to me," Abboud said. "I don't know how an ad reduces crime, and I don't know how an ad reduces out-of-towners. I think the people who come to Isla Vista to commit crimes are going to come regardless of an ad.

According to Abboud, I.V. Safe's rebranding effort and exclusion of Isla Vistans in the conversation is not only ineffective but also disrespectful to those who live in I.V. "No other community would ever have an external government body impose an ad campaign to rebrand it anywhere else in the state or the country, that doesn't happen," Abboud said. "It happens very rarely when you are reducing crimes and reducing out-of-towners, this doesn't seem like it meets those ends to me."

Dudley said she sees the campaign as a way to show the current status quo of I.V., rather than altering the image of it. "I see it as not so much a rebranding, as really shining a spotlight on where Isla Vista is right now," Dudley said. "The campaign is essentially the communication tool that lets everybody know that we are changing I.V. back to the great community it was once," Berris said.

Cheryl Sun
University News Editor

The Isla Vista Safe Committee recently developed an ad campaign to be released this week in an effort to rebrand I.V. as safe and to notify the public of changes, including additional lighting, fences and police officers.[ok]

The campaign includes fliers and a thirty-second video which features elected leaders and UC Santa Barbara and Santa Barbara City College (SBCC) students and graduates delivering a message with paintings of I.V. donated by local artist Chris Potter, as the backdrop. The main message in the video ad centers on the letters "I.V." and encourages viewers to keep I.V. safe by giving back to the community and living a life that makes you proud. The ad will be broadcast on television in Santa Barbara County, Ventura County, Oxnard and San Luis Obispo County and also shared through social media.

UCSB, SBCC and the city of Goleta each contributed $15,000 for the campaign and the Santa Barbara County District Attorney's office and the sheriff's department each donated $5,000. I.V. Safe is comprised of government stakeholders and receives $10,000 annually in funding from Santa Barbara County.

Santa Barbara County District Attorney and chair of I.V. Safe Joyce Dudley said the committee's top priority is to rebrand I.V. and change its reputation. "The group said the most important thing is to change the image of Isla Vista," Dudley said. "To take it away from being the party school where you come here, you abuse alcohol, drugs and the environment and take advantage of people, commit crimes."

According to Dudley, the committee is working with film director, writer and branding consultant Ken Berris on the campaign. Dudley said Berris' daughter attended UCSB and Berris has previously collaborated with the university to create ads during Halloween.

"He's working very closely with UCSB and they came up with those Halloween ads," Dudley said. "Everybody felt for the rebranding it was going to be positive ... and those beautiful pictures in the background that were donated, he brought that back to the committee and we all liked it." SBCC trustee and UCSB alumnus Jonathan Abboud said he believes rebranding should be done from the "ground up" by Isla Vistans and not by officials in Santa Barbara.

"I'm not trying to demean the work of my colleagues ... but I believe they made a mistake by not consulting the community," Abboud said. "This is a very sterile ad, made from people in downtown Santa Barbara who hired a professional consultant to create an ad. That's why I personally feel like it won't work, because it doesn't have that genuine feeling of the town doing it."

According to Berris, the ad targets locals in Santa Barbara, as well as students and their parents.

"The audience is going to be ideally everyone in Santa Barbara County, from students, to parents, to residents," Berris said. "We want to start spreading this new communication about what we want I.V. to become again."

"I see it not so much as rebranding, as really shining a spotlight on where Isla Vista is right now."

- Joyce Dudley

Happy birthday, Lisa
Class of 1984
AB 3 Heads to Gov. Brown Following Senate Passing

If passed, AB 3 will promote stability where it is currently lacking in the Isla Vista community. Additional street lights and sidewalks, as well as rent mediation, are among the potential changes.

Peeka Zimmerman
Staff Writer

California State Assembymember Das Williams's Assembly Bill 3 (AB 3), which seeks to create a Community Services District (CSD) in Isla Vista, passed the California Senate and Assembly on Sept. 11 in Sacramento.

AB 3 will now be sent to Governor Jerry Brown, who has from now until Oct. 11 to either sign or veto the bill. If approved, the bill will establish the CSD's formation processes and boundaries and authorize services for I.V., including rent mediation, additional sidewalks and improved lighting.

Senator Hannah-Beth Jackson presented AB 3 during the Senate session, where the bill passed with a vote of 25-14. Jackson said she and Williams are honored to represent I.V. in its path to self-governance.

"The current conditions in Isla Vista have reached a breaking point and AB 3 establishes a community services district for providing critical services to the community of Isla Vista which will initially serve as a stepping stone to future stability in that community," Jackson said.

According to a press release from Williams' capital office, the assemblymember left Sacramento early Friday morning for Santa Barbara, arriving just in time for the birth of his first child. YaAsh Rene Williams, Assemblymember Lorena S. Gonzalez presented AB 3 on the Assembly floor and the passage of the bill moved forward without interruption with a vote of 48-27.

"YaAsh, means Heaven in Navajo. Her middle name also carries a special meaning, as it was given in honor of Assemblymember Williams' grandfather, Rene Dierz, a current resident of Ojai," the press release stated.

AB 3 would require an application to be submitted by the Santa Barbara County Board of Supervisors to the Local Agency Formation Commission (LAFCO) to review the district and place the CSD and a Utility Users Tax (UUT) on the Nov. 2016 general election ballot. The UUT would tax residents a percentage of their utility bills in order to provide funding for the district.

Williams said I.V. residents have been essential to the bill's progress during each stage of its development.

"This has been one of the most community driven bills the legislature has ever seen," Williams said in a press release. "Everything included in the bill was reviewed during weekly community stakeholder meetings and, after 45 years, Isla Vista will finally have the opportunity to vote on their own governance."

William's Chief of Staff Lourdes Jimenez said the Assemblymember was "honored to represent the residents of Isla Vista and glad we can now take the next step in the CSD formation process."

"After 45 years, Isla Vista will finally have the opportunity to vote on their own governance," Das Williams

Postdoc Petition For UC-Wide Improvements

United Automobile Workers, a union of over 6,000 postdoctoral researchers, demanded better working conditions.

Cheryl Sun
University News Editor

"Most of the UC campuses are expensive areas, so it's hard for postdocs and our families to make a living."

- Anke Schennink

Postdoctoral scholars across the University of California system hand-delivered over 3,000 signatures to executive vice chancellors at seven different UC campuses on Monday to demand a fair contract and improved working conditions.

The bargaining and demands were organized by the United Automobile Workers (UAW) Local 5810, a postdoc union representing more than 6,000 postdocs at all 10 campuses in the UC system. Postdoctoral researchers are those who have a doctoral degree, either a Ph.D. or MD, and conduct mentored research at a university. They receive salaries and benefits through federal research grants awarded to the senior researcher who guides the postdoc in research.

UAW 5810 was established in 2010, after the first contract between postdocs and the UC was negotiated and signed. The initial contract granted UC postdocs a minimum salary with periodic increases, health coverage and opportunities for career development.

The union is currently bargaining for a second contract to obtain fair compensation, equal treatment for international postdocs, and increased family-friendly benefits.

President of UAW 5810 and Assemblymember Lorena S. Gonzalez said she was elected president of the union in May, around the same time the bargaining began. According to Schennink, one of the main demands is an increase in pay.

"There are a couple of areas where we would like to see improvements," Schennink said. "One of them is compensation and benefits. The postdoc salaries are generally pretty low given the education level of postdocs. Most of the UC campuses are expensive areas, so it's hard for postdocs and our families to make a living."

UAW 5810 Santa Barbara, unit chair Patrick Callahan said he joined the union since becoming a postdoc at UCSB in Nov. 2014. The average salary for postdocs is $2,700 per month, and postdocs at many UCs face housing affordability problems, according to Callahan.

"I wasn't able to find an apartment for the first month I was in Santa Barbara," Callahan said in an email. "The average price of a one-bedroom apartment in Santa Barbara was $1,800/month in 2014. Many landlords will not rent to someone unless the rent is less than a third of their monthly salary, and that is about $900 for the average take-home postdoc pay."

According to Schennink, another demand is to allow international postdocs to choose their visa statuses to avoid being required to immediately leave the country upon losing their job or when other complications arise.

"About two-thirds of postdoc researchers are international," Schennink said. "A lot of postdocs are recent immigrants and are on some sort of visa. If they're being, for example, terminated, you will have to leave the country and, if the visa is expired so they have to leave the country in 24 hours, or in a couple of days depending on what visa you are. So equal rights and due process are important for that."

UCSB alumni and union organizer Aviva Milner-Brage said though postdocs are initially hired for a yearlong position, they typically stay for two to three years which causes difficulties when postdocs have to leave the U.S. to renew their yearlong visas.

"Because of the UC's policies, basically they grant postdocs a visa for one year. Postdocs actually have to leave the country for a couple of weeks at a time in order to renew their visa," Milner-Brage said. "Having to leave the country puts a lot of delays in research and grant applications that they could otherwise just continue to be doing regularly."

Recording Secretary Christophe Hauser said he joined the union in Jan. 2014, after becoming a postdoc at UCSB, and had a hard time finding a place to stay upon arriving in Santa Barbara with his wife.

"I am not a U.S. citizen, and it was virtually impossible to find any housing options due to the fact that we didn't have any credit history, which most of the rental agencies (and landlords too) check before they rent you anything," Hauser said in an email. "This made the situation extremely difficult, we had to stay in a motel for several weeks before we eventually found a room in a shared house as a subslease."

According to Schennink, UAW 5810 is also bargaining for additional family-friendly benefits to compensate postdocs.

"Another area that is really important is family-friendly benefits," Schennink said. "A lot of postdocs are in their late 20s, early 30s, and a lot of postdocs have young families or are thinking about starting a family."

Milner-Brage said because postdocs have difficulty raising a family in the short-term position and generally low salary, the union is also asking for reimbursement.
Celebrity Mathematician Joins UCSB Faculty

Award-winning mathematician Yitang Zhang shows promise as a distinguished mathematics professor who will make important contributions to UCSB and to the world of research.

Yitang Zhang

Josh Ortiz
Staff Writer

Renowned mathematician Yitang Zhang will be joining UC Santa Barbara’s mathematics faculty this fall, a development many hope will add further prestige to the university.

Zhang became famous in 2013 when he submitted a proof to the Annals of Mathematics that established the first finite bound on gaps between twin prime numbers, a feat many believed impossible.

The New Yorker magazine published a profile on Zhang in February, and Filmmaker George Csicsery premiered a documentary on Zhang called “Counting from Infinity” in January. Zhang’s major breakthrough earned him numerous awards and honors, including the 2013 Ostrowski Prize, the 2014 Frank Nelson Cole Prize in Number Theory, election to the Academia Sinica fellowship in 2014 and tenure professorship at the University of New Hampshire in 2014.

UCSB mathematics professor and number theory specialist Jeffrey Stopple said it is unusual for mathematicians to be featured in The New Yorker.

“He’s probably at this point one of the most famous mathematicians in the world,” Stopple said. “I think there might be only maybe two or three others alive that have his level of celebrity.”

UCSB Chancellor Henry T. Yang said he personally invited Zhang to join the faculty as a professor. “I was honored to be able to host his visit to UCSB during a mathematics department colloquium in May and have him personally invited Zhang to join the faculty as a professor. I was honored to be able to host his visit to our campus and to invite him to become a professor, a colleague and a friend on our campus,” Yang said in an email.

According to UCSB professor emeritus in mathematics Martin Scharlemann, Zhang currently stands as one of the most prestigious professors at the university. “There are various types of prestige in mathematics. One is to be known by experts in your field and another is to be known by the general public,” Scharlemann said. “At least in the second category, he’s probably the most remarkable here at UCSB.

UCSB mathematics department chair and professor Darren Long said he hopes Zhang’s presence in UCSB’s math department will increase the amount of interactions between professors and expand the department’s range of research. “This is not an enormous department, so we don’t have representation in every field possible,” Long said. “He is somebody that opens up a vista in that way.”

According to Stopple, hiring Zhang will significantly increase the university’s prestige and will attract even more students in the future. “I think it raises the profile of the campus enormously,” Stopple said. “In terms of recruiting new students at UCSB, I think at all levels people will want to be here.”

Long said he offered Zhang a reduced teaching load to start, but assumes Zhang will want to increase it because of his extensive teaching history at the University of New Hampshire. “It is my impression that he will want to teach undergraduates from time to time, Long said. “I expect he will succeed.”

University of Massachusetts Boston mathematics professor and former University of New Hampshire’s mathematics department chair Eric Grinberg said Zhang has always been a humble faculty member, despite his worldwide fame. “He was always very modest and unassuming and he certainly never boasted of anything,” Grinberg said. “Even though he’s become world famous, I don’t think that’s changed too much.”

Grinberg said students at the University of New Hampshire found Zhang’s teaching style to be “very much accessible” and “easy to follow.”

“Some people might try to impress everybody by how deep their work is and get them lost in technicalities,” Grinberg said. “Yitang Zhang doesn’t do that.”

Stopple said Zhang’s next goal is to solve the Landau-Siegel conjecture, an important piece of a larger and more difficult problem called the Riemann Hypothesis, a 150 year-old mathematical conjecture with a one million dollar prize attached to it. “He sets his sights very high and I’m very impressed by him,” Stopple said. “Even the piece that he’s working on would make him famous all over again if he wasn’t already famous.”

Stopple said it is unlikely Zhang will be able to solve the Landau-Siegel Theorem during his time at UCSB. “In some sense, it would be like someone being struck by lightning twice,” Stopple said. “It’s ambitious to try, but he’s the guy who’s willing to try stuff like that.”

Yang said UCSB is an ideal place for Zhang to teach while also conducting research. “Our campus provides both the intellectual and psychological well-being...”

Don’t just survive, thrive by taking the best steps for your emotional and psychological well-being...

We can help with:
- depression
- anxiety
- stress
- relationship problems
- or other mental health concerns

Individual, Couples and Family Counseling

UCSB Students Receive a Reduced Rate of $20/session

UCSB Students need a referral from Counseling & Psychological Services or Student Health Services.

Hosford is operated by the Gevirtz School’s Department of Counseling, Clinical, and School Psychology
Conveniently Located in the UCSB Education Bldg.
Call to Make an Appointment. No Walk-Ins.

Acting Director: Toni Zander, Ph.D. (PSY 8674)
(805) 893-8064 www.education.ucsb.edu/hosford

facebook.com/hosfordclinic

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facebook.com/hosfordclinic
Student involvement in three-year campaign gives way to ‘partial’ but significant victory in battle against UC’s investment in oil and gas industries which practice hydraulic fracturing

Juliet Bachtel
Assistant News Editor

University of California Investment Office recently announced it divested nearly $200 million from coal mining and oil companies focused on tar sands while adding sustainability criteria to their investment portfolio.

Fossil Free UC is a campaign organization comprised of students, faculty, staff, alumni and community members demanding UC divestment from all fossil fuel companies. The announcement to divest came after increased student pressure from a dozen schools following the May oil spill in Santa Barbara, preceded by three years of constant campaigning from Fossil Free UC. Despite the partial victory, the University of California continues to invest in oil and gas industries involved in processes like the controversial method of hydraulic fracturing.

Fossil Free UCSB Organizer and global studies graduate Theo LeQuesne said Fossil Free UCSB has been leading a fossil fuel divestment campaign targeting the top 200 fossil fuel industries, discerned by the amount of carbon dioxide the companies release into the atmosphere. LeQuesne said divesting from the industries forces them to take responsibility for their environmental impact.

“The reason we are targeting these industries is not necessarily that we think we can financially bankrupt them,” LeQuesne said. “The reason we want to do that is because they have assured themselves not to be responsible in terms of the public interest.”

According to LeQuesne, fossil fuel industries lobby to block legislation targeting climate change, which motivates Fossil Free UC to continue the campaign advocating for divestment.

“The fossil fuel industry has an enormous lobbying power and it’s really not okay for these people to uphold democracy and the way that politics are going at the moment,” LeQuesne said. “We will continue for divestment and we will be doing that for as long as it takes. We’re not going anywhere.”

LeQuesne said the goal of Fossil Free UCSB is to change people’s perspective on the fossil fuel industry by educating the public on the industry’s tactics and impacts in person as well as online through social media.

“We do this by having conversations with people at the arbor,” LeQuesne said. “It’s a long process, it’s one person at a time. By talking to people we encourage them to come to our meetings and get involved which is really a wonderful thing to see happening on campus.”

LeQuesne said another goal is to reinvest the UC’s capital in more sustainable practices. “Once divestment occurs you have a lot of capitol to reinvest,” LeQuesne said. “We’re not just pushing for divestment, but putting that capitol to help benefit smaller communities and to help prevent climate change. It requires a different way of thinking of divestment.”

According to LeQuesne, though the oil spill in Santa Barbara last May was damaging to the environment, it also united the UCSB community to demand the UC recognize its responsibility regarding the spill.

“We had about 75 students demonstrating outside of Chancellor Yang’s office against UC investments,” LeQuesne said. “The UC has investments in Exxon mobile, for example, and Exxon Mobile’s oil was running through that pipeline that burst and endangered a whole bunch of wildlife.”

LeQuesne said Fossil Free UCSB has been campaigning for three years and are excited to have won a “partial victory” through student involvement.

“The recent victory is really testament that you can as a student make a difference through campaigning and activism and that is really exciting to see,” LeQuesne said. “It’s a shame that the recent divestment didn’t result in oil and gas, it was only coal and tar sands. It’s really a matter of time, I believe. It’s not an everyday occurrence.”

Second-year chemistry major Isaiah Swauncy said he thinks divestment will help the shift from fossil fuels towards more sustainable alternatives.

“I think fossil fuels are definitely ruining the environment,” Swauncy said. “I think it’s a great idea and stepping stone for the rest of the U.S. However, until we find another energy source that can sustain the population we can’t completely stop using fossil fuels but the UC can help with divestment.”

Fossil Free UC leader and UC Berkeley creative writing major Jake Soiffer said it is about time the UC began divesting from fossil fuels.

“This is a hard-fought victory for students and our allies from across California who have been demanding the UC truly live up to its big talk on climate change,” Soiffer said.
Associated Students Finance and Business Committee (A.S. F&B) makes changes to be more equitable and transparent in its funding of student groups both old and new

The Associated Students Finance and Business Committee (A.S. F&B) recently announced several new additions to its website for the upcoming year in an attempt to help facilitate the funding process for student groups.

The A.S. F&B, previously known as the A.S. Finance Board, is tasked with allocating annual student fees to help fund events and services of registered student organizations. Last year, the finance board was responsible for designating the spending of the Associated Students’ $10.9 million budget, $364,812 of which went to student organizations. The committee redesigned its website and logo this summer as part of its "rebranding" efforts.

A.S. F&B Chairman and third-year history of public policy and political science double major Jerel Constantino said the new website will make it easier for student groups to request funding compared to the lack of "transparency" and "accessibility" in last year’s committee operations.

“I felt like a lot of students didn’t really feel like we wanted to give their money back to them, which is kind of what our role is,” Constantino said. “We just want to get a new look. We want to make our brand everywhere just so that people know that this is the committee you go to to get funding and access to the fees, and part of that is redoing the website.”

According to Constantino, one of the website’s new features is an online form for rollover requests and event reports, which he said could act as archives for students to use as references in future funding requests.

“In the past, we’ve just relied on asking students, ‘How much money did we give you last year?’ but that’s not really accurate and there’s really not much record keeping in those regards,” Constantino said. “Since these forms are online now, any student will be able to look up just how much money this org spent and what they spent it on online.”

A.S. F&B Vice-Chair and third-year political science major Isabelle Ninh said confusion over policies and procedures repeatedly arose during last year’s funding processes.

“When student groups were going through the funding process, a lot of the same questions kept popping up again about policies and procedures and what not,” Ninh said in an email. “This year, we’re aiming to solve that by providing guides and other resources that will increase clarity and give more detailed instruction so that the funding process is more efficient.”

Constantino said the committee also hopes to allocate more funding to newer and smaller student groups rather than mostly funding events for larger organizations.

“A large part of our funding has gone to organizations that already have a lot of funding — they can afford to fork over a few thousand dollars for their barbeque,” Constantino said. “I’d like to see more organizations, especially newer and smaller ones, being represented, to get their piece of the pie.”

Chairman Jerel Constantino has several ideas to improve the committee’s communication with student groups regarding exactly how much money is distributed and when.

The only thing they could really improve on I think is making the funding easier to see when it’s distributed,” Lampel said in an email. “It was just hard to tell when the money was transferred and how much we actually got.”

Ninh said A.S. F&B plans to continue making events like SB Hacks possible.

“So many of our students have really great ideas on how to give back to our community and enrich the student body as a whole,” Ninh said in an email. “I’m really looking forward to hearing them all, and my team and I are excited to make that happen.”
Teen Arrested for Bringing Clock to School Receives White House Invite

Ahmed Mohamed, a 14-year-old Muslim high school student, was arrested on Monday for bringing a homemade clock, mistaken by a teacher for a bomb, to school. Texas police announced Wednesday that no charges will be filed against Mohamed. Mohamed said he was a part of robotics club at his middle school and wanted to show his teacher the electronic clock he created. His English teacher confiscated the clock when the alarm went off during class, and Ahmed was then taken to the principal’s office and subsequently arrested. The Mohamed family suspects the arrest may be linked to racial profiling, due to their last name and September 11. #IStandWithAhmed became a trending hashtag on Twitter, and President Barack Obama has invited Ahmed to bring his clock to the White House. abcnews.go.com

Former ‘Daily Show’ Host Lobbyers for Extension of Sept. 11 Health Programs

Former “Daily Show” host Jon Stewart lobbied Wednesday for lawmakers to extend the 9/11 health programs, joined by 100 9/11 first responders. New York Senator Kirsten Gillibrand and other New York area members of Congress asked for Stewart’s help in gathering support for the permanent extension of the James Zadroga 9/11 Health and Compensation Act, which provides compensation and healthcare to first responders and survivors of the September 11 attacks. Stewart agreed to help lobby for the programs, scheduled to begin expiring at the end of the month, after Gillibrand appeared on “The Daily Show” in July. Stewart is credited with aiding the passage of the initial legislation in 2010, bringing four sick first responders onto his show to pressure Republican lawmakers filibustering the passage of the bill. While more than 30 Republicans have endorsed the extension proposal, supporters are still looking for more cosponsors because of resistance to permanent funding of the programs. abcnews.go.com

New Analysis Finds Antidepressant Paxil Increases Risk of Suicide in Youth

The weekly peer-reviewed medical journal BMJ published a study Wednesday which disputes reports made in 2001 that the antidepressant Paxil is safe for use among teenagers. The research was new analysis of the same data collected fourteen years ago, originally used to support the claim that Paxil was effective for teens. Over the years, Paxil and similar drugs have been labeled with strong warnings as to the potential suicide risk for children, adolescents, and young adults. The antidepressant is said to be less risky for adults with depression who are over the age of 65, GlaxoSmithKline, the producer of Paxil, stated the original conclusion of the drug being safe for youth is true and pointed out their willingness to release the original data for reanalysis as evidence of their transparency concerning the drug’s safety. nytimes.com

Rioting Erupts as Migrants Attempt to Cross Closed Serbia-Hungary Border

Hundreds of migrants have gathered at the Serbia-Hungary border near the Serbian town of Horgos. Hungarian police used tear gas and water cannons to drive migrants back from the border as they threw stones and water bottles at the riot police. Several migrants suffered from the tear gas and were treated by ambulances that arrived on the Serbian side. Many migrants are hoping to reach Germany, but Hungary closed its border with Serbia on Tuesday. It is now illegal to cross or damage the border fence, and offenders are to be arrested and tried in Hungarian court. The Serbian foreign ministry has expressed consternation over Hungary’s use of tear gas and water cannons across the border into Serbian territory. bbc.com

Six Hikers Found Dead, One Hiker Still Missing

Six people are dead and another missing from a group of hikers trapped by floodwaters in Zion National Park, a result of heavy rainfall on Monday. The group obtained a permit to hike Keyhole Canyon Monday morning, just hours before park officials closed the canyon due to flash flood warnings. Park officials stated there was no way to reach the hikers to alert them of the floodwaters. The hikers were residents of California and Nevada, all in their 40s and 50s. Rangers found the group’s car, but saw no sign of the missing individuals. It was determined unsafe to send a rescue crew because of falling darkness and the canyon filling with water. abcnews.go.com

Saudi Arabian Construction Halted in Light of Grand Mosque Crane Accident

A report on state-run Saudi Arabian radio announced Tuesday that Saudi Arabia’s King issued a decree to halt all Saudi Binladin Group construction projects throughout the kingdom until a full investigation of the deadly crane collapse at the Grand Mosque in Mecca last week can be completed. More than a hundred people were killed and another 238 injured by the falling construction crane. The Saudi Binladin Group, founded by the late al Qaeda leader Osama bin Laden’s father, was in charge of the Grand Mosque expansion project, also known as the Masjid al-Haram. The incident occurred during strong thunderstorms with gusty winds and just 10 days before the Hajj — an annual pilgrimage which will bring an expected two million people to Mecca — begins. cnn.com

Missing in Zion National Park Flash Flood

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large number of residents, students and community leaders involved in the bill’s development demonstrate an environment of open dialogue and positive change.

“Every day in Isla Vista, countless individuals and community coalitions do amazing work — groups like the Pardall Center, Adopt-A-Block, the I.V. Youth Projects, and the IVRPD,” Jimenez said in an email. “The community process has provided the opportunity for Isla Vista residents to connect with one another and has brought together pockets of the community that might not usually interact.

According to Jimenez, AB 3 community meetings will continue every Tuesday from 6 to 8 p.m. in the conference room of the I.V. Clinic Building at 970 Embarcadero Del Mar.

“With AB 3 on the Governor’s desk, it’s of the utmost importance that we have a strong showing of community support for the bill,” Jimenez said in an email. “This means that we are looking to community members to write an e-mail to the governor, send a letter, and/or to call his office and let him know how important this legislation is for the community.”

Jimenez said one of the key parts of the IVCSD is it allows Isla Vista residents to be directly involved in local government.

“Residents within the District’s boundaries will have the opportunity to run for one of five elected positions on the Board of Directors,” Jimenez said in an email. “In addition to this direct involvement with a future district, residents will have the opportunity to volunteer with the District and participate in any programs that a future Board of Directors decides to spearhead.

According to Jimenez, the bill’s passage through the California Legislature has been “empowering,” but work still remains to be done if Governor Brown passes AB 3.

“Once the bill is chaptered into law, a community-driven campaign is needed to pass the IVCSD during the November 2016 election,” Jimenez said in an email. “Much like our success at the Governor’s desk is dependent on community engagement and support, the IVCSD’s success at the ballot will depend on Isla Vistans turning out to vote and informing one another about the benefits of local representation and self-governance.”

Letters to the Governor can be sent to: Honorable Jerry Brown Governor, State of California State Capitol Sacramento, California 95814

Fun Fact: Some turtles can breathe through their butts.

Source: news.discovery.com

CA Senate Confirms Three New UC Regents

The California Senate recently confirmed three regents nominated by Governor Jerry Brown to the University Of California Board Of Regents. Regents Eloy Ortiz Oakley and John Pérez began serving on the 26-member board in November, and Gareth Elliott in January. Their appointment by Brown required approval by the state Senate within a year of their nomination. The appointed regents serve 12-year terms, though Oakley and Pérez will remain until 2024 and Elliott until 2025 because of the governor’s delay in filling vacancies on the board.

Megan Mineiro
News Editor

Eloy Ortiz Oakley

After serving four years in the United States Army from 1984 to 1988, Oakley attended Golden West College and then transferred to U.C. Irvine. Oakley earned a Bachelor of Arts in Environmental Analysis and Design and Master of Business Administration. He has been Superintendent and President of Long Beach City College for the last eight years and previously was vice president of college services at Oxnard College and assistant vice president at Keenan and Associates. Oakley sits on the Long Beach Area Chamber of Commerce and Los Angeles Area Chamber of Commerce and is a member of the American Association of Community Colleges. He is also a member of the National Association for the Advancement of Colored People (NAACP) and the Association of California Community Colleges Administrators (ACCCA).

Gareth Elliott

Elliott earned his Bachelor of Arts degree from Humboldt State University. He worked from 2011 to 2015 as the legislative affairs secretary in the Office of the Governor and is now a partner at the California lobbying firm Sacramento Advocates, Inc., which represents corporation such as Kraft Foods, Microsoft and Wal-Mart. Previously, Elliott worked as the policy director in the Office of the California State Senator Alex Padilla and the policy director and deputy chief of staff in the Office of California State Senate President pro tempore Don Perata.

John Perez

Pérez attended UC Berkeley beginning in 1987, pursuing a Chicano studies major, but left the university in May 1990 without graduating. Pérez is one of the longest serving State Assembly Speakers, after being first elected by his colleagues in 2010. As Speaker, one of Pérez’s main initiatives was to improve accessibility of higher education through the Middle Class Scholarship Act. Pérez previously served as the Political Director for the California Labor Federation and was appointed by President Bill Clinton and President George W. Bush as the President’s Commission on HIV/AIDS.
UCSB Fall Sports Mid-Preseason Review

MEN'S SOCCER

Familiar Start for Men's Soccer

Michael Jorgenson
Sports Editor

For the second straight year, the UCSB men's soccer team has started 2-2-1. Speaking as how the Gauchos went on to finish the 2014 season with the No. 1 seed and home-field advantage throughout the Big West Tournament, this solid start seems to bode well for them. After all, they were selected to repeat as Big West North Division Champions in the 2015 Preseason Coaches Poll.

Bringing back core players in left back Ismaiel Jome, midfielder Drew Murphy and forward Nick DePuy, all of whom are juniors who were named to the Preseason All-Conference Team, UCSB has experience on its side this time around.

DePuy is the reigning Big West Offensive Player of the Year, having scored 10 goals and six game-winners last season. The former midfielder has already gotten off to a hot start to this season as well, notching three goals in five appearances, tied for first in the Big West.

Murphy and Jome are coming off a season in which they each compiled a team-high five assists, tied for first in the Big West.

Juniors who were named to the Preseason All-West Coast Conference team, the Gauchos got off to a perfect start to the season. DePuy was able to pick up right where he left off, scoring a first-half header off a cross from junior midfielder Seo-In Kim. The Gauchos' first road trip to New Mexico saw them tying 2-2 against New Mexico before falling 2-1 to host team No. 17 New Mexico.

UCSB's top two transfers in Feucht and sophomore defender Ismaila Jome were named to the All-Tournament team, continuing to impress and solidify their spot in the starting lineup.

Just this past weekend, Santa Barbara traveled to UConn where it bounced back with a 2-0 win over Yale before once again losing to the host team 2-1.

The Gauchos have tended to start games strong, scoring a goal in the first half of four out of their five games, they have conversely found themselves faltering late in games. Already three times this season, they have conceded two goals after halftime to lose their lead.

Up next for UCSB is a home game against the College of Charleston, a team the Gauchos defeated on its home turf last season 2-1. The game will be played at 7:30 p.m. tomorrow night at Harder Stadium.

Michael Jorgenson
Sports Editor

And a couple of freshmen in center back Sam Strong and goalkeeper Justin Vom Steeg provided the Gauchos 90 minutes without a slip-up on the way to a 1-0 statement win over the team that was ranked No. 8 in the nation to start the year.

Strong's efforts earned him his first Big West Defensive Player of the Week award while Vom Steeg earned a call-up to play for the USMNT U-20 squad in Serbia the following weekend. The team's top goalkeeper and son of Head Coach Tim Vom Steeg has given the defense a comfortable, composed presence in goal, providing two shutouts and going 2-0 in his first three starts. His .800 save percent and .67 goals against average are both good for third in the Big West.

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Michael Jorgenson
Sports Editor

They say inexperience is an obstacle for many teams, but that has not stopped the UCSB women's soccer team from enjoying a successful preseason. On a learning curve after going 8-9-2 last season, this group of 19 underclassmen has exceeded last year’s standards and prepared Coach Paul Stumpf that they are ready to play.

Facing off against Atlantic-10 opponents Duquesne and Saint Francis, this was a great chance for the Gauchos to solidify their chemistry and work out all their kinks before the conference.

The Gauchos did so in dramatic fashion against a red hot 3-1-1 Dukes team. Trailing 1-0 in the final six minutes of play, UCSB knew it had one more attack before the end of regulation. Sophomore midfielder Chase Schornstein took advantage of this opportunity as she collected a pass over a Dukes defender from junior Dakota Grigg and launched a kick to the back of the goal post. The 1-1 equalizer.

It wasn’t long until freshman midfielder/forward Mallory Hromatko made her mark on the game as well, blasting a shot from the left side of the box into the right corner and sealing a 2-1 victory for the Gauchos in overtime.

Hromatko wasn’t the only notable freshman that had a productive weekend. Sydney Magnin took advantage of her starting lineup job against 0-6-1 Saint Francis. The midfielder knocked in two goals for the Gauchos, one in the 4th and another in the 33rd minute of play, propelling her team to a 3-2 victory.

Now the Gauchos head back to Meredith Field with hopes of extending their winning streak to five games.

Their success thus far can be accredited to their impressive core of freshmen. Hromatko has carried the load for the Gauchos starting all nine games at forward and leading the team in scoring with nine points and three goals. The Danville, CA native earned herself a Big West Player of the Week nomination last week and looks to be the offensive anchor heading into the conference season.

Jessica Parque, Dakota Griggs and Magnin hope to complement Hromatko’s dominant play on the offensive side of the field as the regular season progresses. The three freshmen have combined for a total of four goals and four assists, all within their last three games.

“These players are not freshman anymore,” said Stumpf. “They’re nine games in against some of the best competition and the experience they’ve drawn [from these matches] will prepare them for a very tough conference schedule ahead.

Schornstein and junior center midfielder Sara Feder will offer some valuable leadership to these young freshmen. Schornstein and Feder were valuable pieces to the team last season, scoring seven goals on the year. Both players were recognized for their play as Schornstein was named to the Big West All-Freshman team and Feder as an All-Big West Honorable Mention.

The Big West will be a new level of intensity for the Gauchos but Stumpf is optimistic for the beginning of conference play as his players have been familiar with this type of competitive play prior to playing for UCSB.

“I believe our team will be prepared as most of our players have come from really talented clubs teams who are used to competing at the highest level,” Stumpf said. “If we keep all of our opponents at one to two goals, we’re going to do some damage in this conference because we will score goals moving forward.”

UCSB will play a pair of home games this weekend against Montana at 5:00 p.m. on Friday and Dayton at 1:00 p.m. on Sunday.

Elliott Thornton
Staff Writer

Junior Nick DePuy has been the Gauchos’ best offensive player since moving to forward last season. He is currently tied for first in the Big West with three goals.

CHRISTINA DEMARZO / DAILY NEXUS

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UCSB's offense has caught fire this month, outscoring opponents 12-3 during its current four-game winning streak.

Staff Writer

SPORTS@DAILYNEXUS.COM
It has been an eventful season for the UCSB women's volleyball team thus far. Through nine games, the Gauchos are 4-5 overall and are hoping to overcome their latest four-game losing skid.

In her third season, Head Coach Nicole Lantagne Welch is hoping to bounce back from a near average year in which UCSB finished 13-14 overall, 8-8 in conference.

Despite its current winless streak, UCSB is a team with much potential. The Gauchos entered this season with the 18th-best recruiting class in the nation and a third-place Big West preseason ranking. For a roster with only five seniors, this season has provided the Gauchos' younger, developing talent with much playing time.

Attempting to fill the vacancy of former setter Ali Spindt, freshman Annie Hasselmann has held her ground. Though still adapting to the collegiate level, Hasselmann has been productive on the court with a total of 157 assists and an average of 4.76 assists per set.

To ease the transition for Hasselmann is redshirt senior setter Hanna Nielson. Although she has statistically outperformed the young setter with 179 assists and an average of 5.42 assists per set, she has been a great influence on Hasselmann's growth.

Turning those assists into points is the remarkable offense of senior outside hitter Ali Barbeau. UCSB's leader on the court as a senior captain, Barbeau is on pace for another outstanding season. A two-time All- Big West First Team selection, she leads UCSB in kills with 105 and owns a team-high average of 3.18 kills per set. She has accomplished career-highs in kills (15) and digs (28) so far this season.

In addition to the prolific attack provided by Barbeau is the offensive precision of another veteran player like senior opposite Britton Taylor. Behind Barbeau for the team-high in kills at 65, Taylor's efficiency when attacking has been consistent as she has a .271 hitting clip.

While the Gauchos have been solid offensively, UCSB's defense has quietly exceeded the expectations of many. The unexpected emergence of freshman libero Emilia Petrachi as one of the Big West's top performers has been admirable. A vital piece in the Gauchos' playmaking defensively, Petrachi ranks second in-conference in digs per set (4.35) and fourth in total digs (135). Overall, Santa Barbara has done well defending the attack as it is second in the Big West in digs per set with 15.36.

Another underrated aspect of the Gauchos' defensive force has been its blocking. A total of 77 blocks and 3.23 blocks per set, UCSB's defense at the net has been superb.

Junior middle blockers Phoebe Grunt and Elizabeth Sheffield have been essential to Santa Kobe Brya's defensive front. Both ranking top 10 in total blocks per set, the duo is responsible for 70 of the team's total blocks. They've been helpful on the offensive side as well with Grunt's .284 attacking clip and Sheffield's .341 hitting percentage rank among the top 10 in the Big West.

With just two non-conference games left, hope is still alive for UCSB as it has the opportunity to gain some momentum with another home-based invitational this weekend. The Gauchos will be co-hosting the UCSC/Cal Poly Tournament. Unfortunately the two rivals will not face each other just yet but says Barbeau's first matchup will be versus Loyola Marymount at 7 p.m.

UCSB's home stand ends with a Saturday afternoon match against San Diego State at 4 p.m.

After having its best start to a season since 2012 at 4-1, UCSB has lost four in a row, including three at home.

Online Focus

NFL Round-Up: Week 1 Review

In the first ever Nexus Sports Online Focus, Michael gives his take on the top storylines from Week 1 of the NFL season. Find Nexus Sports on Twitter, Facebook and dailynews.com for more exclusive online material about your favorite sports teams.

Sean White
Assistant Sports Editor

Cheater or not, Brady’s still going to beat you

This lesson has been learned time and time again when it comes to the Patriots. It doesn’t matter who is surrounding Tom Brady, more times than not, he’s going to win. Whether he’s throwing to Deion Branch and Troy Brown, Randy Moss and Wes Welker, or Rob Gronkowski and Julian Edelman, the result is usually the same. With the climax of Deflate-Gate finally having passed and Brady’s four-game suspension being nullified, the two-time NFL MVP happily accepted his fourth Super Bowl ring before walking all over the Pittsburgh Steelers to the tune of a 25-32, 288 yard, four TD passing night. Maybe the Patriots’ history of getting caught cheating made it easy to silence all the noise surrounding them! Whatever the reason, it was another Brady show on his last Thursday that another rally in the old age category hasn’t slowed him down at all. Unfortunately, that wasn’t the case for one of his peers...

Broncos win, but Peyton looks more like Eli

"Hey, who was that guy throwing for the Broncos on Sunday? The one wearing the Peyton Manning jersey?" Those were my thoughts while watching Denver go on to an extremely ugly 19-13 win over the Baltimore Ravens. Since making the move from Indy to higher altitudes, Peyton has now gone 4-0 in Week 1. I’m sure there’s been changes in three years. In 2012, coming off multiple neck surgeries which held him out for the entire 2011 season, Manning silenced all doubters by looking like his old self and going 19-26 for 253 yards and two scores in a 31-19 win over Pittsburgh. The following year, he kicked off the season with a dominating offensive campaign in NFL history by throwing an NFL record-tying seven TDs in a 40-27 demolition of the defending champion Ravens. Last year, more of the same against his old Colts, throwing no picks for the third straight opener to go along with three six-pointers and a 31-24 win. This past Sunday against Baltimore, well, Peyton didn’t look quite like Peyton. He missed open receivers down the field on more than one occasion and the only touchdown he threw was to Ravens cornerback Jimmy Smith. I’m not saying that we’re going to be seeing a drop in production of Manning this season, but I am saying that this is definitely not the same guy who did my “Make a Puppet of your Favorite Hero Project” on in sixth grade, let alone the guy who broke every single-season offensive record in the book just two seasons ago. If his defense can keep the team in the game, let’s take a look at some of the top stories we’ve witnessed at this early point.

Dez Bryant out 4-6 weeks

Dez may or may not have “caught the ball” (yeah, he caught it) against the Green Bay Packers in last year’s NFC Championship game, but this past weekend he did indeed catch a broken foot to go along with his five receptions. Luckily for the Cowboys, they pulled off a rather miraculous 27-26 win over the New York Giants, who inexplicably told runningback Rashad Jennings NOT to score a touchdown in the final minutes that would have put the G-Men up by 10. Jerry’s World is the only NFC East team with a win after one week, but it could be in trouble without its top weapon.

Big debuts and AD’s return highlight Monday Night

Speaking of “top Cowboy weapons,” former Dallas runningback DeMarco Murray was one of several players to watch on Monday Night as he started in his new role with the Philadelphia Eagles. Last year’s top rusher started 2014 with an NFL record eight consecutive 100-yard games, but had a misjudged nine yards on eight carries in his debut with the Eagles, who lost a 26-24 heartbreaker to the Falcons.

Another exciting debutant on Monday Night was San Francisco’s Jarryl Hayne, the man famous for becoming the first to make the unprecedented jump from rugby star to NFL return man. Unfortunately, the 27-year-old Australian rookie misjudged his first punt, having the ball slip through his hands before being recovered by the Vikings special teams. If there ever is a sequel to Mark Wahlberg’s “Invincible,” Hayne just might not make the cut.

While it wasn’t a debut for a certain runningback wearing the No. 28, it was a much-welcomed return. That’s right, Adrian Peterson made his glorious return to the field after missing the entire 2014 season due to suspension. I guess the Vikings were trying to show “Invincible,” Hayne just might not make the cut.

Without top receiver Jordy Nelson, Aaron Rodgers was near perfect as usual, throwing three scores on 18-23 passing. A fourth quarter goal-line stand allowed Green Bay to hold on to its one-score lead and go on to win 31-23.

Packers D holds the Bears

Although no receiver Jordy Nelson, Aaron Rodgers was near perfect as usual, throwing three scores on 18-23 passing. A fourth quarter goal-line stand allowed Green Bay to hold on to its one-score lead and go on to win 31-23.

Rookie Bowl: Mariota vs. Winston

The battle between the top two picks in this year’s draft wasn’t much of a battle. No. 1 overall pick Jameis Winston became the first quarterback since Brett Favre in 1991 to throw a pick six on his first pass attempt. Marcus Mariota, on the other hand, was near perfect, throwing four touchdowns and making it look easy on the way to a 42-14 win. I think we all know who’s winning the Rookie of the Year.
PREPPING FOR PRIMARY CARE

The concept of “primary care” dates back to prehistoric times. Back then, a given tribe had only one medicine person who knew all the members of the tribe, their health concerns, their hopes and aspirations, family dynamics, etc. It made for great confidence in the care provided even though that care was basically limited to leeching and drilling holes in skulls.

Today, that concept still applies (minus the leeches and drills). A primary care provider is a doctor, nurse practitioner or physician assistant that can take care of all the unique needs of any individual. They not only help with acute illnesses, they help control chronic conditions like asthma, anxiety and depression, and they advise on appropriate preventive measures like vaccines.

Studies show that people who have a primary care provider are healthier, happier with their care and have a lower cost of care. Even in the college population where students are generally young and healthy, having a primary care provider is still very important.

If you’ve ever come to Student Health, you were likely greeted with a two-page sheet that asked a multitude of health-related questions. These questions help the provider to build a foundation upon which to expand their understanding of you as a unique individual. That information makes future visits simpler and more effective. Seeing a different provider depresses the interaction of that background and the visit can be longer and less productive.

Another perk of having a primary care provider is decreased wait times. People who have a prescheduled appointment at Student Health rarely wait more than a few minutes to be seen.

How ‘Activism’ Hurts ‘Professionalism’
Respectability, Politics and all that bullshit

I didn’t get the job, the job I had been dreaming about (quite literally) for the past year. I had thought that this job was a structure to hold all of my wilder passions, shedding light in a single direction to organize everything I had ever seemed good at. I emailed the head of the department asking for her expertise. Where had I gone wrong? What were my weaknesses? Her response shocked me, it may or may not have been the reason that I didn’t receive an offer to work for her. But her response was this activism. My involvement with “activist” spaces on campus made the department feel as if this would come in the way of my working one-on-one with people from diverse backgrounds. I don’t remember outlining activism as something I do. I also don’t remember the advice for ideologies you believe in as an activist making a difference in certain peoples (when done without the right intentions) or communities I identify with can turn them away from the way of professionalism from the viewpoint of these running these social constructs. Was I being seen as an “angry brown girl” who hates white people? Was it because of my participation in Vaginal Monologues and the angry feminist theatre that you often is associated with its members that got in the way of my success? I don’t understand why respectability politics defines professionalism and why professionalism does not have room for scholarly activism, or, how I see it, just being passionate for active change.

So, what is professionalism? I’ve been taught from young that professionalism is something to strive for, as it’s the highest degree of career accomplishment and clientele you can accomplish. I have knowledge in that by being a professional in the field you work in, you are more competent and offer mastery ability in the workplace for others to be inspired by. You maintain a respectful reputation for yourself and your colleagues, and you are a leader with much credibility. Professionalism also reminds me of fancy suits, conservative manners and a surface deep attitude that transcends into strategically arranged dialogue, which is always politically correct and never radical or actually informative. This last view grew over time, as originally, professionalism was just about being respected, right? I grew up wanting to be a professional, to be really good at something I love and to be counted as a prime example of what is successful in this career set. I have always seen myself as a hard-working individual, who is talented in certain circles of activity. But where have I been called out for not being professional is in my professional interactions in the workplace, of which human interactions that followed getting introduced to activist spaces on campus. And frankly, nothing better could have happened to my mind, as it expanded immensely.

When I started meeting activists, I learned the most I have ever learned in my life. I learned about student activism, I have never fathomed, people’s challenges I did not know existed, and the feelings behind it. Being discriminatory against and systematically excluding people that drive the need for a revolution and their direct action on the frontline of this fight. When you are standing up to a system of hate driven by the most monetarily powerful people in the world, it is effective to be outspoken, radical, and extreme in your demands, from what I’ve seen. It takes much courage to stand up to those bullies and fight for what should already be protected, which are your rights as a being, freedom and equality in all opportunity. But what needs to be done is being done, which is their dedication to calling out injustices publicly and making sure that action is being taken to keep the head people’s dirty work transparent, and stop it from continuing. So, why do activists get condemned for not being professional? This happens all the time, and most of it is because they refuse to fit into the mold of bullshit that is too often needed in being classified as a so-called “professional.” This mold of bullshit consists of speaking with political jargon that is not really breaking down any point, or an easily accessible way of communicating to more than one type of people, dressing conservatively and in a singular dimension, refusing to call out people who are “important” and remaining complacent when you should be emotionally fighting the fight.

This is all my belief, but sometimes, as a woman, if you don’t wear makeup, comb your hair, wear tight heels and cover your boobs, you are seen as unprofessional when dealing with professionals or a professional pursuit. If you are talking about how racist America is online, and spreading America like “Anti-black,” that can be seen as unprofessional. When you have piercings or tattoos, when you talk about microaggressions or macroaggressions, when you protest or use a raised voice as a vehicle for change, you may be seen as unprofessional. When you write articles about white feminism or Islamophobia, or you question authority in a classroom, this may hurt your chances of getting hired. What the f**k is bullshit? Why do we have to silence ourselves or shift into a robotic capitalist business of a being to be hired in most places stably? I am not okay with this.

I’m not saying that I identify as being an activist. I do not. I do not identify with this because I have not built movements, nor revolutionized the way people think or feel in a massive way. I have already spoken in my way out of “professionalism,” so frankly, I don’t give a f**k if I offend people who are keeping the flawed system running. I do give a f**k if I never get hired because of it, and that is what makes all the difference. I need to take care of myself, I need to be hired and I need to remain true to what I believe. How do I do all three? That is still being questioned, but the first step is truly building with like-minded individuals in this core subject and rebellions against all we have been taught. We need to build community while also tearing down communities that keep respectability politics alive, professionalism one-dimensional and judgments towards radical nature prominent in work fields. Let’s get hired, but let’s burn down the obstacles between protesting on the streets and getting a job in the office. We can do this together. We can do this together.

Views expressed on the Opinion page do not necessarily reflect the views of the Daily Nexus or UCSB. Opinions are submitted primarily by students.
Death Cab for Cutie, savior of the indie-rock world, has done it yet again with 2015 release *Kintsugi*, and has been celebrating with a world tour. On Sept. 26, the band famous for "Soul Meets Body" and "I Will Follow You Into the Dark" will grace our own Santa Barbara Bowl along with beach-rock duo Best Coast.

Originally founded by four Bellingham, Washington men in 1997, Death Cab boasts a long career on the indie/alternative scene with plenty of success. Over the years, the boys have produced eight full-length albums and two EPs, racked up five Grammy nominations, streamed the world's first live, one-shot music video, earned *Billboard* gold and platinum certifications, been featured on movie and television soundtracks, etcetera, etcetera, etcetera. The list goes on and on and, needless to say, this is a group of seasoned musicians.

Likely, the show will feature much of the material from their latest album, but I predict some of their old hits will make the setlist as well. It wouldn't be a show for bassist Nick Harmer without bass-centric fan favorite "I Will Possess Your Heart," and I'll be damned if frontman Ben Gibbard doesn't end the show pleading "I need you so much closer" from their *Transatlanticism* title track, hopefully with some pyrotechnics involved (lookin' at you, SB Bowl... make the magic happen).

Recently, however, the group has become smaller. Chris Walla, guitarist and producer, announced that he would be leaving the band after *Kintsugi* was finished. Thus, Death Cab will be touring with remaining three original members Gibbard (vocals/guitar/piano), Harmer (bass) and Jason McGerr (drums) along with new recruits exclusively for tour, Dave Depper (guitar/keyboards) and Zac Rae (keyboards/guitar). Although Cabbies everywhere — myself among them — find themselves wondering why anyone would leave a band that created such impeccable angry anthems, tear-inducing ballads and all-around lyrical and musical genius, I am sure we are all excited to see what the threesome can do without Walla, nonetheless.

As for the show-openers, Best Coast is sure to set the stage well for Death Cab. Although their lyrics lack in intellectuality, especially in comparison to Gibbard’s poetic verses, the band’s beachy sound will be no stranger to a Santa Barbara crowd. The two-piece consisting of songwriter, guitarist and vocalist Bethany Cosentino and guitarist and multi-instrumentalist Bobb Bruno is famous for their upbeat California-centric songs with just a hint of haunted distortion. Although not a huge fan of Best Coast due to my inability to overlook the distractingly shallow lyrics, the band holds a special place in my heart seeing as Cosentino is the only famous musician to have come out of my high school choir. Personal preferences aside, the pair is sure to hype up the crowd with hits like "Boyfriend," "The Only Place" and "Our Deal."

If you find yourself wanting to escape the crowded and surely alcohol-drenched streets of Isla Vista that first weekend back, snag a seat at the Bowl for what’s sure to be the alternative rock experience of a lifetime. After all, a band whose first release was a cassette tape and yet who continues to be relevant among music-lovers of all ages in 2015 has got to have some serious talent.
Tom Misch: Leading London Chillwave

Benjamin Miller
Reporter

The Information Age has provided musicians with a music sharing platform more powerful than ever before — the Internet. Sites such as SoundCloud and The Hype Machine have fostered the birth of location-based genres, from Australia’s industry-leading ethereal take on electronic music to Toronto’s recently proliferated brand of R&B. A captivating blend of nu-soul, hip-hop and jazz is currently emerging from the underground scene in London, and 20-year-old mega-producer Tom Misch is the epicenter.

In late August, Misch released his most recent project, Beat Tape 2. Misch is a relatively new name in music. He has risen to fame in a route that has become conventional in just the past half-decade; he releases music on SoundCloud through his label, Beyond the Groove.

Misch is somewhat of an enigma. His YouTube interviews are few and far between. He’s a classically trained jazz guitarist, but that strategy partially succeeds; he opens with “The Journey,” a track that was premiered in Misch’s Soullection White Label Series. The live instrumentation includes violin and an explosive guitar solo that lies perfectly into the mix.

Re-releasing “The Journey” as the first track on Beat Tape 2 was a great decision on Misch’s part. New fans will love the sound from the get-go. Veteran Misch fans won’t mind listening through one more time.

“Wander With Me” features Misch’s friend and neighbor, Carmody. The two have previously teamed up to create similar, laid-back tracks that get plenty of SoundCloud attention. Carmody’s voice resembles that of Lana Del Rey, but with a tender touch that allows for moody, soothing melodies. Her layered harmonies cut through flawlessly and are a perfect fit for Misch’s groovy production.

Rap fans who occasionally dabble in casual freestyles will gravitate towards “Come Back” and the final track, “Home.” Both songs contain simple hip-hop beats, gentle vocal samples and classic Misch guitar flares. “Home” oozes a nostalgic feel while maintaining a progressive beat that begs your foot to tap along. It will be the song that brings you back when you rediscover it in a year or two.

Fittingly enough, Beat Tape 2 concludes with a beautiful solo at the end of “Home.” Misch is branding a guitar sound that will soon blossom from the underground. With the majority of his tracks reaching a peak six figure plays in under two weeks, Misch is steadily presenting a unique genre to the world, alongside his London friends, who are seeing their own networks grow as well. Independent music releases have become the best way to show off true, raw talent from anywhere in the world, and Tom Misch’s Beat Tape 2 is a stellar example.

Fear for the Future of This Spinoff

Alex Wehrung
Staff Writer

About two and a half years ago, I couldn’t sleep one night, so at three in the morning, I went on Netflix and popped on the first episode of “The Walking Dead.” The first 20 minutes absolutely dripped with atmosphere; Rick’s few minutes in that hospital was probably the most frightening sequence in the history of the series, and I was hooked. But at the end of the pilot for “Fear the Walking Dead,” I turned to my mother, a fellow fan whom I successfully converted two years ago, and said, “Eh.”

I don’t want to be entirely dismissive; I know what the show-runners were going for here. They wanted to develop the characters and really tease the start of the zombie apocalypse. And that strategy partially succeeds; high-school employees Travis and Madison are likable enough leads, and so is Madison’s son (played by Frank Dillane, who had a brief stint as a younger Voldemort). Thus far, he is the only character I’d actually like to see in a zombie apocalypse because, despite having some major drug issues, he can clearly get himself out of a bind. His sister, however, is another story. She’s apparently Berkeley-bound, yet she skips class and watches videos on her phone when she doesn’t. Bullshit. Travis’s son also acts like a little snot, so that’s two characters I’d like to see get eaten by the undead.

Also, the pilot unfortunately succumbed to utilizing what “The Walking Dead” (and most other horror mediums) seem to think is scary: jump scares. So pathetically predictable and insultingly cheap were they that I felt like FWD was treating me like an idiot. Madison stares at her boss, a school principal, as he’s faced away from her and bunched over. The camera zooms in, the music swells. He turns around, BWAAAAAAh. He was eavesdropping on his fellow teachers through the PA system. Funnily enough, this same actor also played a high school principal in a film starring Sarah Wayne Callies (Lori Grimes). The conspiracy theories/fan fiction that could stem from that alone could probably form the basis for a more compelling hour of TV. As for that aforementioned slow burn approach to the zombie apocalypse, it gives middling returns. There’s one kid who has pieced together what’s going on across the country and feels powerless to stop it. Now that’s quite compelling. And then when video footage of a zombie attacking emergency response personnel emerges online, an entire Los Angeles school district decides to end class early that day. Now that’s quite stupid. What? Did the district employees think, “Oh oh, let’s send the kids home. Learning about geometry will only add to their trauma.”

Believe me, I want this show to be good. As a reader of The Walking Dead comics, I’d like to watch a series where I don’t know what could happen next. So, hopefully, the characters will manage to hold my interest, there’ll be no more jump scares (as if) and we’ll all get the awesome zombie apocalypse origin story we were promised. This series definitely has potential. It had better goddamn use it.

Alex Wehrung’s just bitter because he knows he has no chance surviving in a zombie apocalypse.
Eating Around the World in San Diego

Taylor Nguyen  
Staff Writer

It's around noon on a Saturday, I am feeling ravenous and I can't decide what to eat for lunch. My mind wanders off to the south of Africa for curried chicken and stewed lentils. My mouth waters at the notion of handcrafted pappardelle generously tossed in a lamb ragù. My belly growls for a large bowl of ramen noodles bathing in a spicy miso broth. In an idyllic world, I would hop on my private jet with my empty stomach and cross the seas to indulge in the many delicacies of the world. A light pastry and coffee in Paris, endless sushi in Tokyo, vibrant paella in Spain... all dreams dashed by the limitations of my '03 Nissan Pathfinder. Luckily for its residents, San Diego has grown into an ever-expanding hub of different cultures. This means that eager foodies, like myself, get to enjoy the traditional gems of many different countries. Here are just a few of my favorite culinary destinations.

If you want to explore Japan, dine at Rakiraki:

One of my all-time favorite dishes of Japanese cuisine is ramen. No, it is nothing like the prepackaged, processed noodles that sell for a buck ninety-nine. I am talking about noodles prepared delicately to a perfect al dente simmering in liquid gold. This spot is crowded at every hour of every day. Though you are going to have to squeeze into your seat or try out the community table, the locals know that the food is worth it. The broth is made from pork that cooks down for at least 12 hours for ultimate richness, and their special spicy miso paste gives a savory, hot kick. Additions of chashu pork, soft-boiled eggs and seaweed add complexity to each bowl. 

Located on 4646 Convoy St, San Diego, CA

When you’re in the mood for Moroccan, try Kous Kous:

Located underground, guests arrive and are immediately transported to a little oasis in the middle of the city. The atmosphere is set with traditional Moroccan lanterns, couches and tapestries. Try a tagine, to a little oasis in the middle of the city. The atmosphere is set with Moroccan, try Kous Kous:

This tiny hole-in-the-wall has a special place in my heart. Ever since I was a wee tot, the same family has worked this joint and provided us with amazing curries. The crazy part is they charge less than seven bucks for two sides, rice, naan and a salad, which means I am always ridiculously happy to dive into a plate of tikka masala and chicken korma over basmati. Added bonus: the naan is baked fresh to order. If you're still hungry, grab a vegetable samosa for a dollar — crunchy dough on the outside, potato pillow-y goodness in the center.

Located on Plaza On Fourth, 3940 4th Ave #110, San Diego, CA

If your mouth waters for Indian, make a stop at Delhi Kitchen:

Located in the hustle and bustle of Little Italy, Bencotto makes a name for its own by presenting authentic Italian cuisine with an emphasis on pasta. The food may be traditional, but the décor impresses with its chic and modern aesthetic. Carb lovers can choose between nine daily hand-made pastas and three artisanal pastas to be tossed in their choice of ten different sauces. The dishes are simple and allow the pasta and ingredients to really shine in a sophisticated way. My favorite is the pappardelle bathed in a decadent pesto.

Located on 3940 4th Ave #110, San Diego, CA

If you have a hankering for Italian, enjoy a meal at Bencotto:

Hidden in the midst of a business park, this spot is truly a treasure. Bud’s offers authentic dishes that you would expect to see in the streets of New Orleans, right in the heart of San Diego. Cajun cuisine is a beautiful marriage between southern comfort food and flavorful spices. A bowl of jambalaya or gumbo will feel like a hearty hug for your belly with plenty of playfulness for your taste buds. How often do you get to enjoy an authentic po’ boy or shrimp and grits in sunny California?

Located on 750 W Fir St Suite 103, San Diego, CA

When you’re cravin’ Cajun, head to Bud’s Louisiana Café:

Flavors of East Africa has a restaurant location but I prefer a weekly visit to them at the farmer’s market in Hillcrest. The food is fresh and readily available for devouring the moment you pay. Order up a plate with your choice of sides and they will provide you with a heaping portion of vibrant vegetables and scrumptious proteins. I recommend the curried chicken, stewed to an extreme level of tenderness. My favorite sides are the eggplant simmered in a tomato-based sauce, chunky lentils and fried plantains. The combination of sweet and savory will be completely addicting. Make room for a sambusa, a golden pocket of spiced meat and happiness.

Located on 11975 Carmel Mountain Rd Suite 603, San Diego, CA

When you can’t afford the safari, check out Flavors of East Africa:

Located on 4320 Viewridge Ave, San Diego, CA

If you ever find yourself in sunny San Diego and I am around, give me a call and we’ll take our taste buds on a trip around the world.
UCSB researchers recently demonstrated how Gram-negative bacteria, such as *E. coli*, exploit target-cell machinery of nearby bacteria and use protein toxins to kill them. Their work furthers current understanding of contact dependent inhibition (CDI) systems and may prove to be useful in the future for antibiotics or therapies that target harmful bacteria.

CDI systems, first identified in 2005 by MCDB professor David Low, allow bacterial cells to touch neighboring cells and inject toxins. This allows bacteria to better compete for nutrients in the environment and protect themselves from the host organism or other pathogens.

"The simplest explanation is that CDI is a mechanism of asserting niche dominance," Graduate Student Researcher Grant Gucinski said. "You can imagine a scenario where one strain of *E. coli* has completely dominated a niche, but they're all getting along fine because they all express the correct immunity protein. Now imagine a different kind of *E. coli*, rolling up uninvited to this bacterial party: not only is it denied entrance, it is killed right-out."

Additionally, Researcher Julia Willett describes the role of CDI systems as "contribution to the overall health of large structures of cells." One theory of increasing the general health of the population is the contribution of CDI in forming stable biofilms. Biofilms are created when microbes adhere together on a surface; this can help bacteria resist predators and contribute to antibiotic resistance of bacterial infections. Another theory is the ability of CDI systems to kill weaker bacteria in order to cycle their resources through other members of the community.

Willett and Gucinski's research regarding CDI systems builds upon Low's initial discovery, as their paper closely examines two domains of CDI toxins. It is now clear that one of those domains directs toxins to cross the inner membrane of target cells. Interestingly enough, disrupting certain genes in the targeted bacteria can confer resistance to certain toxins. Mutations in these genes prevent CDI systems from attacking these target cells with toxins.

"CDI systems have the benefit of being specific for a given species, so a CDI system that targets a pathogenic *E. coli* wouldn't target other species of bacteria in your gut," Willett said. However, she admits that "there is a lot of work that needs to be done before CDI systems could be tested as potential therapeutics, since the bacteria that cohabit human bodies are sensitive to change, and not yet wholly understood."

Antibiotics, on the other hand, target a wider variety of bacteria, which can be harmful to the normal bacterial population residing inside a healthy gut. Overuse of antibiotics, as well as evolving bacteria, mean that antibiotic-resistant bacteria are becoming more prevalent.

"Antibiotic-resistant bacteria are a growing threat that we cannot afford to treat lightly," said Gucinski. "We’re running out of effective antibiotics. Only by discovering new antibiotics or developing novel antibiotic therapies will we be able to keep this threat at bay."

Primary authors Willett, a doctoral student in the molecular, cellular, and developmental biology (MCDB) department, and Gucinski, a graduate student in the biomolecular science and engineering program, will see their paper presented in the Proceedings of the National Academy of Sciences (PNAS). Their research was conducted under faculty adviser and MCDB professor Chris Hayes, who is also listed as an author.

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**Earth Versus Asteroid: Who Will Win?**

Stephanie Pernett
Staff Writer

Natural disasters and the diminishing of Earth’s resources are only some of the problems that humans have to face; there is also the threat of asteroids colliding into Earth and causing a razing of the environment, its resources and terrestrial life itself. To combat this possibility, UC Santa Barbara physicist Philip Lubin and professor at California Polytechnic State University, San Luis Obispo Gary B. Hughes, have organized an Experimental Cosmology Group with the objective of developing a strategy for deflecting an asteroid in collision course with Earth.

The strategy focuses kilowatt-class lasers on suspect asteroids to alter their rotations and ultimately change their trajectories.

The groups studies have led to the emergence of the futuristic planetary defense program DE-STAR (Directed Energy System for Targeting of Asteroids and Asteroid), and its more practical-in-vision twin, DE-STARLITE programs. As with the Experimental Cosmology Group’s conception, these programs plan to use lasers powered by photovoltaics, converting solar energy into direct current electricity to heat the surfaces of asteroids to 5000 Kelvin (4900°F). The heat causes parts of the asteroid to vaporize, and this mass ejection creates a plume of evaporated material that acts as reactionary thrust able to effect the asteroid’s orbit.

While both programs share the same strategy, DE-STARLITE is much smaller. It is known as a “stand on” system.

"It goes up on a single launcher, a rocket if you will. It needs months to years of engagement in order to deflect a large asteroid," says Lubin.

DE-STAR, on the other hand, is a “stand-off” system, meaning it deflects asteroids from machines here on Earth. Lubin states, "The laser does not travel to the target. It can initiate targets that are as far away as 1 AU, which is an astronomical unit. That is the average distance from the Earth to the sun."

The particulars of the strategy evolve five classes of lasers, ranging from 0 to 4: 0 being the smallest, about 1 meter, and 4 being the largest, about 1000 meters. To bring it to perspective, Lubin explains: “If you want to have full planetary defense in a stand-off mode, you would need a class 3 or class 4 system. (Class 3) has roughly 1 gigawatt of power and a class 4 has roughly 100 gigawatts.”

As for how much time we have to deflect an asteroid, Professor Lubin emphasizes that there are many variables to consider.

"It depends on how far the asteroid is, how large it is, how fast it’s moving, how much power you have in the laser, and when you begin engagement. The further away you begin the process and the more power you have, the less time you’ll need," says Lubin.

Simulations imitating the asteroid deflection event were done using low-powered lasers and basalt, a type of rock that has similar composition to an asteroid. The cosmology group pointed the laser at the basalt and through the process of laser ablation, which removes material from a solid, were able to change the rock’s mass and turn the eroded mass into reactionary thrust, causing the basalt to alter its trajectory, confirming the group’s hypotheses.

Aside from deflection, the lasers can also be used to guide asteroids. With these systems, it may be possible to bring them to Earth so they may be mined and studied. Before that can happen, however, the laser systems must do their primary job of helping Earth avoid asteroid collisions.
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36.3 MEGAPIXELS

36.3 MEGAPIXELS

50.6 MEGAPIXELS

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12.1 MEGAPIXELS

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22.3 MEGAPIXELS

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24.2 MEGAPIXELS

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