



Caltech freshmen organize Hacktech event

PARUL PUBBI
Staff Writer

Hacktech, billed as the biggest hackathon on the West Coast, happened on January 24-26 at the Santa Monica Place. Over 1200 hackers came to work with technology and with each other. For 36 straight hours, students from about 50 different schools tried to come up with and finish the execution of different “hacks,” or projects, with applications for computers, iPhones, or Android devices.

The event was led by David Mace, Kshitij Grover, and

Shubhankar Jain, freshmen who began to envision the event over summer and worked up until the weekend to ensure the success of the hackathon.

“We wanted to put Caltech on the stage of all the other major schools in terms of entrepreneurship,” said Mace, one of the event’s founders. “More generally, we also wanted to establish a hacker culture in California, where it wasn’t really before, and establish more positive connotations. A lot of students get caught up in doing abstract problem solving, but we wanted a platform where it would be possible to do more applied learning.”

was that AT&T told us a month before the event that they would cover all of the logistics, including things like meals and Wifi, but about three days before the event, they dropped out,” explained Mace. “Luckily for us, we were able to talk to them and they pulled through.”

One of the winning applications at the hackathon was an easy-to-use home automation application for iPhones that connected all household devices onto a single platform and



Hacktech’s first-ever winning team, led by Chris Gervang, created the home-automation system CLyDE.

-Case Sandberg

camera and a tracking algorithm to trace the location of finger.

Judges included representatives from companies such as Microsoft, AT&T, Pinterest, and Twilio; prizes ranged from iPad minis to \$20,000 in seed funding for a startup from Start Engine, a Los Angeles startup accelerator.

“Even for those of us who weren’t as experienced, it was really fun,” said Ker Lee Yap, a freshman that partook in the event. One of the apps that Caltech students (primarily Page House members) worked on was called “Whisper,” a place for students to anonymously post secrets and a matching photo. At the conclusion of the hackathon,

many of the free sponsor giveaways, referred to as “swag,” were available for Techers to pick up on the Olive Walk.

The core group behind HackTech plans to host a 300-person hackathon further into spring, as well as a full-fledged hackathon of a similar scale this time next year. Covered by the Los Angeles Times and considered a Division I hackathon, Hacktech was quite a success for an event that many were skeptical would be remotely feasible.

As Jain and Mace said, “it’s important to remember that you can’t really succeed unless you’re on the brink of failure!”



Award presentations by the Hacktech team, (from left) Farrukh Jadoon, David Mace, Shubhankar Jain, Kshitij Grover, Siddharth Murching, Spencer Moran, and Justin Brehznev.

-Case Sandberg

In this issue

NEWS

SanPietro travel prize winners describe travels **3**

OPINION

Brad interviews Melissa Wang **4**

FEATURE

Nailen reviews *Come to Life* **5**

SPORTS

Close games for basketball at Oxy **7**

The trio worked together in order to encourage students to come, persuade sponsors, and organize plans such as the venue, travel reimbursements, and food. “One of the biggest challenges we faced

allowed for conditionals based on the event, such as lights turning on after a certain level of darkness had been measured or a fan turning on at a certain temperature.

Another winning hack involved a mechanism to turn any laptop screen into a touch screen using a



Over 1200 hackers assemble at the Santa Monica Place.

-Case Sandberg

News briefs from around the globe

Helping readers burst out of the Caltech bubble

Need to know

< **100** words about the world this week – topics sorted from good to bad

by *The Tech Eds*

- Girl helps world literacy** **1M** books donated worldwide in five years by teen’s nonprofit [HEPOST]
- U.S., China for diplomacy** **35**th anniversary of diplomacy encourages China to soften image [CNN]
- Record set at Wing Bowl** **363** wings eaten by Molly Schuyler, beating previous record of 337 [CNN]
- Egypt strikes extremists** **13** extremists loyal to Muslim Brotherhood killed by Egypt’s military [CNN]
- CA declares drought** **29** local agencies cut off by state, left to find water source elsewhere [NYT]
- Kiev protestor attacked** **35**-year-old activist Dmytro Bulatov kidnapped, beaten for dissent [TIME]
- Mount Sinabung erupts** **30k** evacuated, 15 killed in Indonesia after major volcanic eruption [NYT]

Food with Mannion!

*Do you like eating food?
How about free food at nice restaurants?
Ever want to tell the world exactly what you think of said food?
The Tech will be beginning a new column to chronicle the foodie experiences of new writers every other week... The Catch: They'll be going head-to-head with Tom Mannion who will be reviewing the same restaurant. If you have ever thought you were more of a gourmand than our resident master chef, now's your chance to prove it!
Email us for a spot on the list at tech@caltech.edu*

The California Tech

Caltech 40-58, Pasadena, CA 91125
advertising e-mail: business@caltech.edu
editorial e-mail: tech@caltech.edu

Editors-in-Chief
Jonathan Schor
Stanford Schor

News Editors
Neera Shah
Nehaly Shah

Photography Editor
Alex Hsu

Staff
Brad Chattergoon
Nailen Matschke
Parul Pubbi
Shannon Wang

Circulation Manager
Michael Paluchniak

Advisor
Richard Kipling

The Tech is published weekly except during vacation and examination periods by the Associated Students of the California Institute of Technology, Inc. The opinions expressed herein are strictly those of the authors and advertisers.

Letters and submissions are welcome; e-mail submissions to tech@caltech.edu as plain-text attachments, including the author's name, by Friday of the week before publication. The Tech does accept anonymous contributions under special circumstances. The editors reserve the right to edit and abridge all submissions for any reason. All written work remains property of its author.

The advertising deadline is 5 PM Friday; all advertising should be submitted electronically or as camera-ready art, but The Tech can also do simple typesetting and arrangement. All advertising inquiries should be directed to the business manager at tech@caltech.edu. For subscription information, please send mail to "Subscriptions."

Write articles for the Tech

get paid up to \$30

ASCIT Minutes

ASCIT Board of Directors Meeting

Minutes for January 28, 2013. Taken by Catherine Jamshidi

Officers Present: Connor Coley, Catherine Jamshidi, Connie Hsueh, Michelle Tang, Monica Enlow, Zach Rivkin

Guests: Connor Rosen, Margaret Lee, Patrick Nikong, Amy Hu, Amarise Little

Call to Order: 10:18 pm

President's Report (Zach):

- The Counseling Center continues to have evening hours Monday and Wednesday, 7pm-10pm. Sign up for 30-minute slots on the second floor of CSS.
- The Undergraduate Self-Governance Committee meetings have been going well – we are mostly addressing philosophical questions at this point. The student reps will be hosting open meetings to discuss some specific topics that come up in the committee.

Officer's Reports:

- **V.P. of Academic Affairs (ARC Chair: Malvika):**
 - TQFR Survey is out – please fill it out so we can make the TWFRs more concise in hopes of increasing the response rate.
 - Collaboration checklist got positive responses from members of the Council on Undergraduate Education (CUE)
- **V.P. of Non-Academic Affairs (IHC Chair: Connor):**
 - There is a definitive plan to fix WiFi in the North Houses. Surveys and improvements will be made for the South Houses, Avery, and Marks/Braun Houses in the near future.
 - Congratulations to Allika Walvekar, Raj Mirpuri, Oliver Curtiss, and Grace Park!
 - The RA application process has closed; talk to your RLC about getting involved with the selection process.
 - The Alumni Association has revamped their website to make it easier to get advice and career help from alums. Try it out at <http://alumni.caltech.edu/chat-network/>
- **Director of Operations (Connie):**
 - Totem, Caltech's literature and arts publication, is holding a Valentine's Day poetry contest and origami workshop.
 - Totem is also accepting submissions for its 2014 issue. Email your work to totem@caltech.edu by March 1
- **Treasurer (Monica):**
 - Remember that you can submit an Event Funding Form to get extra money for your club! tinyurl.com/ASCITEvent
- **Social Director (Michelle):**
 - If you want to join the Executive Social Committee, please contact Michelle Tang at mtang@caltech.edu
 - We will be holding Trivia Night at the Coffeehouse every other Thursday night starting on February 6th.
 - To celebrate the Winter Olympics, we will be holding some sort of carnival event later this month. Details TBD.
 - Avery, Dabney, and Ruddock interhouse will be coming up later this term.
- **Secretary (Cat):**
 - Dean Kiewiet has sent in a proposal for changes to the Scholastic Requirements of Undergraduates. The student reps on UASH have met and put together a set of revisions that will be discussed at a UASH Meeting on Monday.
 - Student Experience Town Hall Discussions are going well. Here's the schedule for the remaining houses:

Avery	Feb. 8	2:00 pm	Avery Dining Hall
Page	Feb. 22	2:00 pm	Page Dining Hall
Ricketts	Mar. 1	1:00 pm	Ricketts Dining Hall
Ruddock	Mar. 1	3:00 pm	Ruddock Dining Hall
Dabney	Mar. 8	2:00 pm	Dabney Dining Hall

If anyone has any questions or concerns about a section of the minutes please email the appropriate officer. We are happy to answer any questions.

Meeting Adjourned: 12:31 am

Caltech Y Column: Look out for new events

PHOEBE ANN LAURA SANTOSO
Contributing Writers

Hi everyone! This is the Caltech Y Column, designed to inform you about the Y and the opportunities we provide for you to inspire your passions, whether by participating in our programs or leading your own!

Upcoming events:

1. Yosemite Winter Camping Trip
Saturday through Monday | February 15th to 17th | Cost \$125 per person

Sign up beginning Thursday, January 23rd at the Caltech Y (business hours are 9 -5, payment is due at signup)

Join us in Yosemite National Park this President's Day weekend! Yosemite National Park is known for its beautiful landscape and impressive waterfalls, and the Caltech Y has organized a special trip to experience the park. The timing of this trip is extra special, since we will be in Yosemite for a once-a-year astronomical and geological event: Horsetail Fall at sunset. Once a year for a week in mid-February, the setting sun lines up perfectly with Horsetail

Fall in Yosemite Valley to turn the waterfall bright orange and pink at sunset, while the surrounding rock is dark.

Be advised this is a winter trip (average temperatures in Yosemite for February are much colder than here – highs in the 40's and 50's, lows in the 20's and 30's) and we will be camping – we can help you choose appropriate clothing and gear to bring.

Our trip will depart campus early Saturday morning and return on Monday in the early evening. Transportation, equipment, and most meals are included. If you have any questions, you can contact

Jeremy Sandler at jsandler@caltech.edu.

3. San Gabriel Peak Day Hike
Sunday | February 9th | 8:30 am

Do you need a break for a quick local hike? Then you're in luck! The Caltech Y Outdoor Adventure group is leading a hike in the San Gabriel Mountains just above campus.

We will be hiking to the summits of San Gabriel Peak and Mt. Disappointment.

This moderate hike is around 4.5 miles long with 1500-2000 feet of elevation gain. We will have great views of the entire Los Angeles area, and we might even be able to

see the ocean if the atmosphere is clear.

We could use drivers to help get us to the trailhead, so if you have a car and would like to come, please consider driving. Email Jeremy Sandler with questions: jsandler@caltech.edu

Go to <http://caltechy.org/lists/> to self-subscribe to announcement lists for upcoming events and sign-up information.

For a student's perspective, feel free to contact Phoebe Ann at phoebe.ann2@gmail.com or Laura Santoso at santoso.laura@gmail.com.

Students reflect on SanPietro Travel Prize trip

SAM SZUFLITA STANFORD SCHOR
Contributing Writer
Editor-in-Chief

Hours and hours had been spent planning every moment of our journey. Yet, when we met in the Seville Airport, neither of us had any idea what lay ahead.

It had been six months since we decided to apply for the SanPietro Travel Prize, and there we were, sitting in a taxi from the airport to our hostel.

We had been apart for the summer, so we spent the ride catching up a bit. Neither of us brought up the three-week trans-Mediterranean adventure that lay before us. We still couldn't believe it was real.

Despite our initial anxiety, everything started out incredibly smoothly. Our hostel was run by a lively group of international globetrotters, and we soon met another group of young travelers who were sipping sangria in the garden. They recommended many sites within the ancient Spanish

city, which we gladly added to our itinerary.

During the morning of the next day, we oriented ourselves atop a modern waffle-like structure in the city square. We got lost, reoriented ourselves, got lost again, and eventually found our way to each of our destinations. Sam's Spanish, although initially a bit rusty, quickly picked up, and his conversations with the locals became far more useful (and more interesting than a map). All this walking left us hungry by the end of each day, so it was a good thing that the food was delicious.

Eventually we had to pack our bags and move on to our next stop, Cordoba. We were both shocked at how easy and cheap it was to navigate the Spanish rail system. We arrived at our new hostel, checked out its own rooftop lounge, and again introduced ourselves to fellow travelers.

New to the Spanish system of siestas (mid-day naps), we sometimes struggled to find shops open in the afternoon. However, we quickly adapted to the Spanish

way of life of late dinner and *tinto de verano* (red wine).

Perusing the ancient Jewish district of Cordoba, we reflected not only on how beautiful the city was, but also on how smoothly everything had gone so far. Our next stop was Ronda, a tiny town with a gorge through middle and the hometown of bullfighting. We arrived in the middle of a week-long town festival centered around the bullfighting ring, and the entire town was decorated and beautiful. Having never heard of the city before doing a little research, we were nervous how it would measure up against the hugely popular cities we had already visited. After incredibly cheap and delicious tapas, a walk into a waterfall gorge, and a day spent taking in the energy of the festival, we were convinced that we had not made a mistake.

Eventually, our time in Spain came to an end. The Spanish people had been so kind and helpful at every turn, and we were a bit afraid of what awaited us in Morocco. We boarded a bus which took us to a

ferry and prepared to kiss the easy life goodbye.

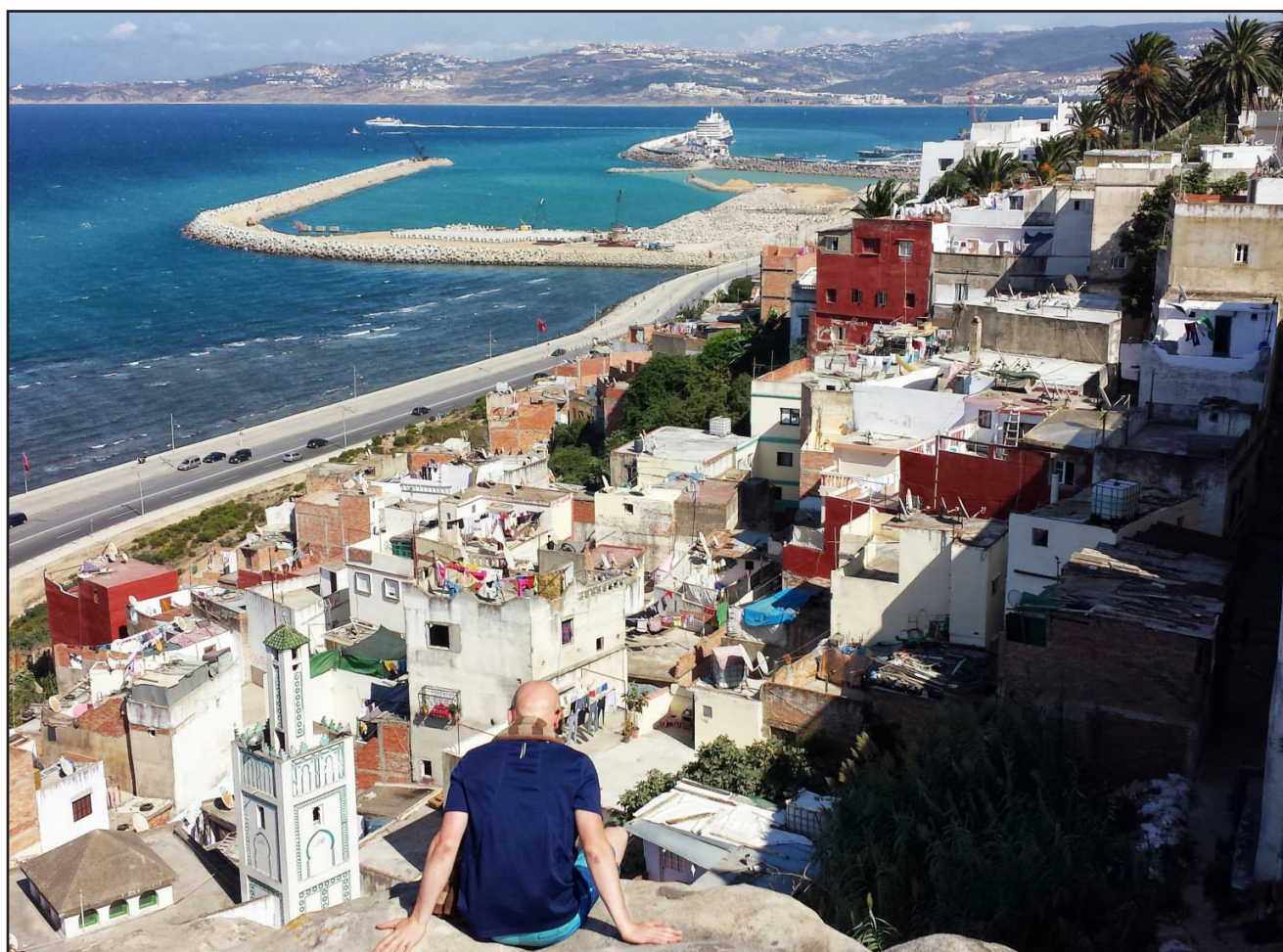
Nervously debarking the ferry, we arrived in Tangiers. Our hostel was in the middle of the

comfortable in a completely new world. We enjoyed a relaxing day on a beautiful beach, drank the most delicious tea in the world, and had a great time.



Sam Szufliita stops for a picture while sightseeing in the trans-Mediterranean.

-Stanford Schor



Stanford Schor takes in the scenery during his travels.

-Stanford Schor

mazlike medina (marketplace), and we initially struggled to find the place. We realized that there was no chance that we would "blend in" here, and as soon as we entered the medina we found ourselves bombarded by forceful beggars and vendors of various commodities. This was the first time in our adventure that we encountered an obstacle.

In a few days, though, we adjusted a bit more and were able to enjoy the city. We learned to navigate the tiny streets easily and developed a good relationship with a nearby restaurant owner who taught us a bit of Arabic.

Suddenly, we were completely

We continued to Fez, where even our hostel felt like a palace and the street beggars were less of an obstacle. We ate plenty of Moroccan food, saw beautiful riads, and we even washed off in a traditional bath house, called a hamam. While few people spoke English particularly well, Stan's French was exceptionally useful in helping us navigate and getting us food. Just like that, we forgot that we were only a few short days away from returning to reality. Soon enough, though, we found ourselves on our way back to the Golden State.

Coming into this experience, neither of us could have imagined just how incredible this opportunity would be.

Who would have thought that a Caltech education would also provide a structured opportunity and the financial means to travel across the world for 21 days? The SanPietro Travel Prize gave us what is most likely our last big adventure before shuttling off into the world of graduate school and job applications. We could not have been happier about how it all turned out.

Brad/Chad Couture: Interview with always stylish Melissa Wang

BRAD CHATTERGOON
Staff Writer

Hey ladies and gents, welcome to week five! Ohh, we're halfway there, ohh, we're livin' on a prayer. Midterms are happening pretty much now so study hard. This week I interview Melissa Wang, a junior from Fleming majoring in ACM. When she's not crunching numbers though, she's editing her fashion blog, "Young, Casual and Chic" (youngcasualchic.blogspot.com). I caught up with Melissa this past Sunday to get her opinions on style and fashion for you guys.

BC: So, why the strong interest in fashion?

MW: I love fashion; it feels like I always have. I grew up in the mid-west where there was not a big fashion following but I got a lot of inspiration from television,

magazines and artwork. It really became to me to be a way to express myself by picking a different outfit based on my mood.

For example, black on those sad days and my favorite color, blue, for those happy days. On celebration



Melissa Wang shows off her "luxe-basics" style.
-Melissa Wang

days I like to go for pink.

BC: How did you first come up with the idea for a blog, and for the name?

MW: This is easy. I've always been interested in writing a blog ever since I started following fashion blogs like "Cupcakes and Cashmere." I really got the motivation to make it happen when I made a bet with a friend that I would be able to go without online shopping for longer than he would be able to go without video games. I lasted all of eight days. But during those eight days I channeled my excitement for fashion into finally starting my blog. As for the name, you know those "describe yourself in three words" prompts? Yup, those are my three words.

BC: How would you describe your style?

MW: In short, luxe-basics (editor's note: luxury basics). I'm not particularly LA or East Coast in my style. I really appreciate quality in fabric and make of my clothes so I have very specific brands that I buy from. Comfort is also really important to me; I like slouchy pants, and slouchy sweaters. Although comfort is

important, some degree of fit is also crucial. I think loosely fitted is the way to go. I'm also a big fan of layering and some of my favorite outfits start with just a tank top and then build from there.

BC: In your opinion, what makes good style and are the rules different for girls and guys?

MW: Good style is expressing who you are through your clothes and if you can make your own style then more power to you. Everyone has a unique personality and perspective and I think that style is a way to show people these things. Girls have a lot of options to explore this but guys are more limited in their selections. This is good and bad since it means guys can stay on target a lot easier but at the same time, they don't have as many avenues to express themselves.

BC: Do you have a signature look? What do you think is a suitable go-to outfit on a regular day for guys and for girls?

MW: My style changes a lot but right now my signature are my rag and bone booties, black skinny jeans, tank top and cocoon knit cardigan, paired with a cross body bag. For guys, a good everyday

look is a pair of jeans or corduroys with desert boots and a fitted button down. For those guys that tend to sweat, I recommend an undershirt to avoid pit-stains. As for girls, I think this depends on the individual so I'll refrain from advising but a simple dress and ballet flats never go wrong.

BC: If you could change one thing about the current attitude to clothing choices at Caltech, what would it be?

MW: I understand that it's only too easy to roll out in sweatpants after a night of doing sets and then running to Sloan at 4 am to turn them in but it would be nice if people also put in some effort to mix it up. So I guess what I'm saying is that I wish people would be a little more self-aware and not default to the t-shirts that get handed out at the career fair. Instead, they should figure out what clothing works well with their body and wear that so that they can feel more confident.

Hope you guys enjoyed the interview! If you have any topics that you want covered please feel free to email me at bchatter@caltech.edu. Good luck with mid-terms!

LAUNCH YOUR CAREER



Dr. Wernher von Braun explains the Saturn Launch System to President John F. Kennedy. In 1957, von Braun's team worked with JPL to launch the first U.S. satellite.

The Caltech Career Development Center and
The Caltech Alumni Association
present the

Caltech CAREER SUMMIT

Saturday, Feb. 22

1:00 - 7:00 p.m.

**Access a professional network
like no other.**

Join Caltech Alumni to hear about their experiences in a broad range of careers in science, technology, entrepreneurship, and more. Connect with other Techers. Launch your career on the right trajectory.

Full schedule and registration available at

alumni.caltech.edu/career-summit

Cities Aviv provides unique mix of vocals, instrumentals

NAILEN MATSCHKE
Staff Writer

Memphis rapper Cities Aviv, otherwise known as Gavin Mays, is a guy who seems to do whatever he wants when it comes to music, and seems to have a blast in the process. His 2011 debut album *Digital Lows* was a bit of a grab bag of styles, sounds, and lyrics, with airy samples and laid-back beats reminiscent of late '90s West Coast hip-hop on top of Cities Aviv's almost rambling but painstakingly rhythmic verses contemplating life. While this made up most of the music, tracks like "Die Young" with its aggressive, loud beat or "Float On" with its thick, hazy electronic layering hinted that there was more to his artistic scope.

Cities Aviv's 2012 mixtape *Black Pleasure* made this apparent in spades, with loud, experimental, and dirty electronic instrumentals mixed just loud enough to almost overpower higher-energy verses with some pretty "out there" lyrics. It was no Death Grips, but there's no doubt that it was pretty far removed from the typical hip-hop scene.

Come To Life, released on January 27, seems almost like an attempt to revisit this style with higher production values, and it's clear that there's some additional confidence that comes along with this. In the end it falls short of being included amongst experimental hip-hop's greats, but it is nonetheless an impressive effort from a young artist who has all the room in the world to expand even further.

The album opens up with the appropriately-named "INTRO" (yes, all of the song titles are written in capital letters), which is basically a two-minute-long loop of a compressed-beyond-belief chord with a repeated unintelligible vocal sample on top and some voices repeating the command "come to life."

After this dies out, "FOOL" starts right up with a mysterious and shimmering synth riff that eventually gets a beat with some faux-retro instrumentation, some xylophone-like noises, and eventually a groovy bass backing when Cities Aviv's voice comes in. These layers that then trade places and switch on and off throughout the length of the track are exemplary of one of the most impressive things about this album, which is that the instrumentals could almost stand on their own as an EDM album. Perhaps not a particularly impressive one, but it's still clear that a lot of effort was put into the instrumentals, and they serve as less of a backing for the vocals and more of an equal.

The next track, "HEAD," is a short one at a little over a minute

and a half, notable for its bright, eclectic synths and surreal lyrics. The fourth track is "URL IRL," the first single off the album and a non-stop experiment in just how loud



-<http://youngonerecords.com/>

Cities Aviv can be. Repeated vocal samples utterly overpower his voice, leading to an unintelligibly shouted rant whose subject matter is anyone's guess but sure makes for fun music to listen to.

"DISSOLVE" then showcases the other extreme of this album, with a muted, distant beat and vocals that are more contemplative than forceful. Once again, the subject matter of the album's lyrics is neither inspirational nor relatable, but is seemingly present more for its aesthetic qualities than any real message it has to say.

Track six is "CTLI," an interlude of sorts featuring fellow artist Abdu Ali reflecting on what the phrase "come to life" means to him. It's followed by "PERPETUATE THE REAL," which I'm a bit on the fence about. The overall feel of the song is very relaxed and enjoyable, but the beat seems to be intentionally made with some of the most obnoxious samples I've ever heard, leading to a song that doesn't really stand out amongst its peers.

Track eight, "REALMS," is nothing we haven't heard before, but the next song, "(SELF 100): KNOW WHO YOU ARE" is one of the most unique on the album, sounding even more like a slow, non-abrasive Death Grips, with distorted and ambient instrumentation that clashes with some of the most energetic vocals on the album. "INTERLUDE" is exactly what it sounds like and serves a throwback to "INTRO," while "Vibrations" is another track with '80s style drums and synths.

We then get "(SELF 180): PICTURE ME GONE" which is actually a well-done entirely instrumental track and one of my favorites on the album with its progression, constant blending of

a variety of samples, and a general attention to detail that makes nothing seem out of place.

The three tracks after it, though, are a bit odd. "STILL" feels like it should be the end of the album, with a slow beat and melancholic strings, but then we get "WORLDS OF PRESSURE," a rap ballad if there ever was one. Perhaps Cities Aviv was trying to pad the album's length, since it still only clocks in at 40:20, but there's yet another track, "DON'T EVER LOOK BACK," which feels pretty pointless as a whole and has a needlessly pounding beat as compared to the laid back nature of the rest of it.

Cities Aviv's *Come To Life* is, as I said before, pretty good on the whole. It has its rough spots and tracks that just feel out of place, but it also has great songs like "FOOL," "URL IRL," "(SELF 100): KNOW WHO YOU ARE" and "(SELF 180): PICTURE ME GONE." Perhaps there's not much meaning in Cities Aviv's lyrics, but I can see him becoming a major name in the experimental hip-hop scene regardless because of his willingness to be unconventional and his decidedly distinct style.

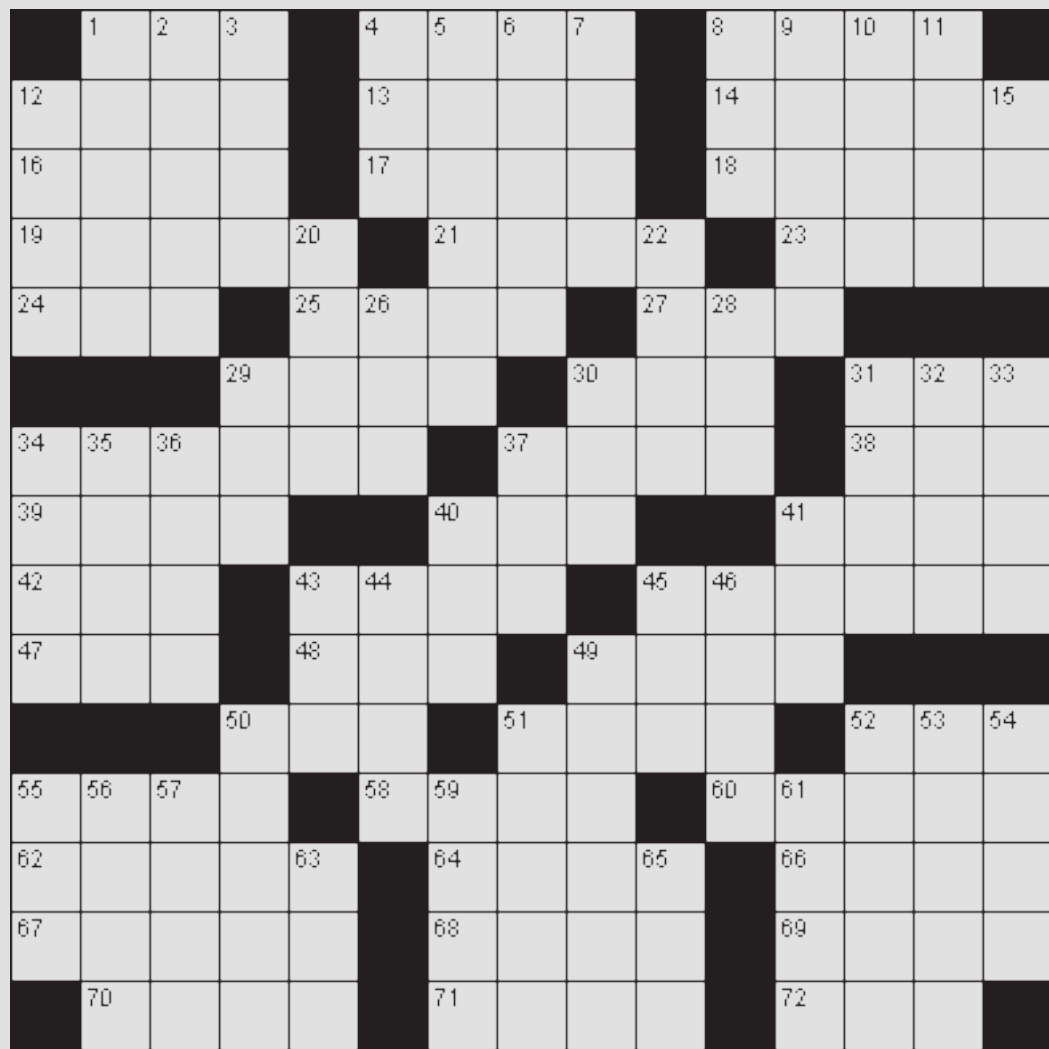
There are few hip-hop artists whose vocals are so removed from the overall sound, putting Cities Aviv in an unusual place when it comes to finding comparable acts. At the end of the day, though, it's his instrumentals that make his act, and as a result I think that fans of other artists unafraid to do their own thing in this regard (with the most obvious being acts like Death Grips, Danny Brown, or Nacho Picasso) are the most likely to appreciate *Come To Life*.

THE CALTECH COUNSELING CENTER IS LAUNCHING A NEW PROGRAM FOR STUDENTS:

There will now be evening drop-in hours for consultation on Monday and Wednesday evenings from 7-10pm. The slots will be divided in 30 minute segments and can either be signed up for in advance, or students can come and block off the time that they want by marking an "X" on the white board next to the time that works for them. They will be held on the 2nd floor of the CSS building in the health educator's office. Access will be through the stairwell on the south side of the building.

*Contact the Counseling Center if you have any questions.
(626) 395-8331*

Today's Puzzle: Crossword



[www.puzzlechoice.com]

Across

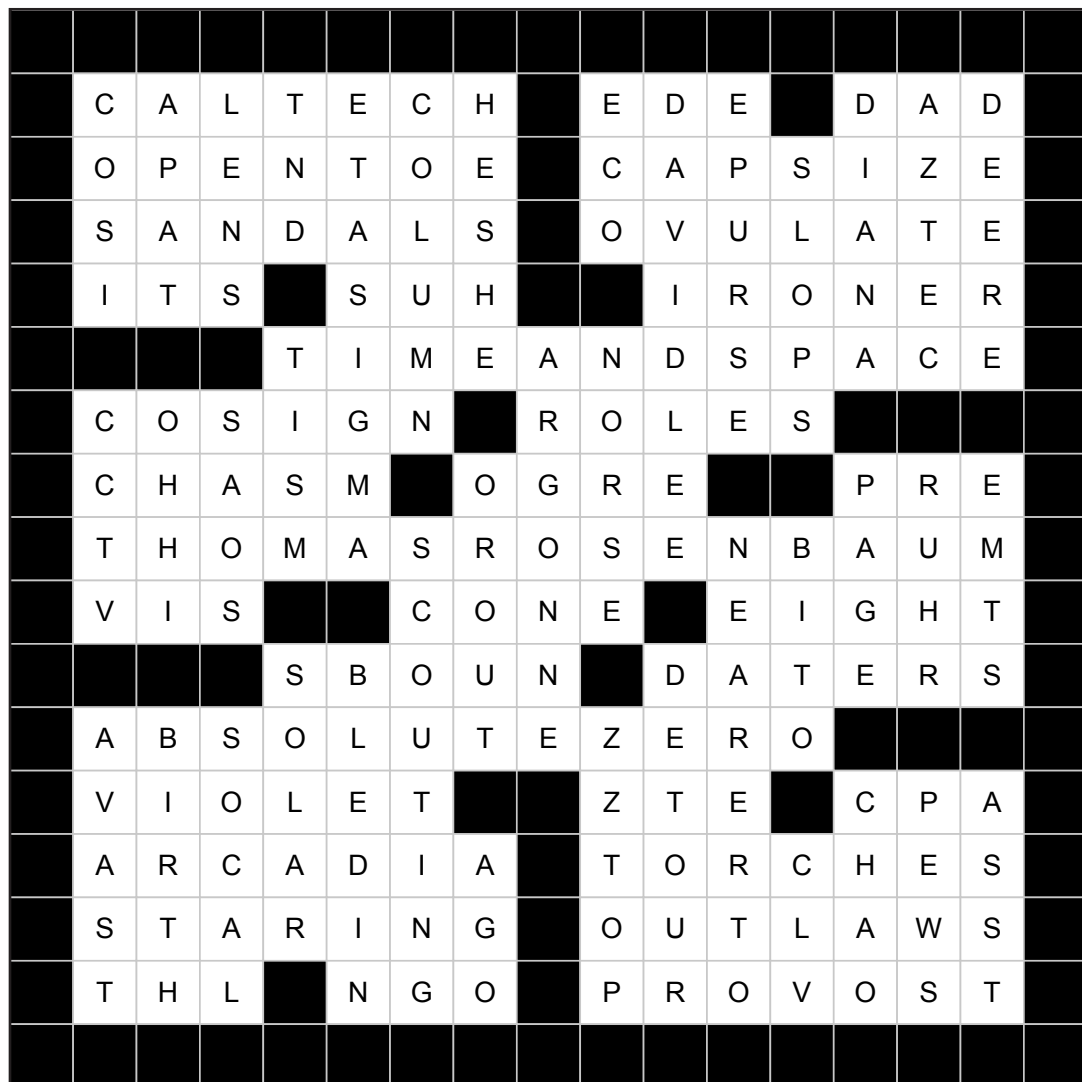
- 1. Droop
- 4. Saturate
- 8. Faction
- 12. Frame of a ship
- 13. Exhort
- 14. Employee organization
- 16. Auxiliary
- 17. Whittle
- 18. Paris subway system
- 19. Iron and carbon alloy
- 21. Portable shelter
- 23. Repair
- 24. For each
- 25. Double-reed instrument
- 27. Beam
- 29. Decant
- 30. Front part of a vessel
- 31. Tender
- 34. Appointed assistant
- 37. Destiny
- 38. Fuss
- 39. Precipitation
- 40. Back muscle
- 41. Type of golf club
- 42. Small snake
- 43. Matured
- 45. Wander
- 47. Hymenopterous insect
- 48. Cooking vessel
- 49. Mush
- 50. Body of water

Down

- 1. Matching set of furniture
- 2. Type of tree
- 3. Mirth
- 4. Consume a little at a time
- 5. Speaker
- 6. Concur
- 7. Sharp
- 8. Total
- 9. Foe
- 10. Make reference to
- 11. Ripped
- 12. Fastener

- 15. Show assent
- 20. Plunder
- 22. Slow pace of running
- 26. Purchase
- 28. Wonderment
- 29. Play on words
- 30. Nocturnal mammal
- 31. Aggressive remark
- 32. Object of worship
- 33. Finished
- 34. Dreary
- 35. Alleviate
- 36. Tube
- 37. An interest followed with zeal
- 40. Allow
- 41. Mischievous fairy
- 43. Simian
- 44. Caprine animal
- 45. Operate
- 46. Seaweed
- 49. Regular customer
- 50. Austere
- 51. Relative magnitude
- 52. Large artery
- 53. Aspiration
- 54. Having a high price
- 55. Female sheep
- 56. Slightly wet
- 57. Notion
- 59. A great distance
- 61. Sprint
- 63. Cereal grass seed
- 65. Encountered

Answers to last week's crossword puzzle from Zach Rivkin



Caltech Public Events is now hiring student ushers. \$15 per hour to work concerts, performances, lectures, films and parties.

*No experience needed, no hard labor, flexible schedules. *Requirements: Caltech student, Positive attitude, Friendly personality*

To apply email Adam Jacobo (ajacobo@caltech.edu) or call (626) 395-5907

For info on Caltech Public Events visit: www.caltech.edu/content/public-events

Basketball teams fight close games against Occidental

ALEX HSU
Photography Editor

Saturday evening, the Caltech men's and women's basketball teams squared off against Occidental with a large group of Techers cheering in the stands. To encourage students to watch at Occidental, Tom Mannion had provided a bus service to and from the game, as well as a pizza dinner in between the men's and women's matches.

The audience actively involved themselves in the games, especially the Beaver section of the gym. The men's game was first: it was a close match throughout; Caltech managed to push through and maintain both strong offense and defense. Captains Andrew Hogue and Bryan Joel held steady composites that were able to lead the team through; freshmen Lawrence Lee, Luke Lango, Mojo Sonola, Ricky Galliani, Nasser Al-Rayes, David Lebaron, Nick

Buoniconti, and sophomore KC Emezie also contributed significantly to the effort. Seconds before the first half ended, the beavers made a half court shot to bring them up to 26-25 Occidental.

They also kept a solid source of pressure on the Tigers, who fought back with equal intensity; there

was never more than a 10 point difference between the two teams.

Minutes before the game's end, the Beavers were able to bring the 56-50 score to 57-54; with only 21 seconds remaining, and the ball in their possession, the Beavers called a final timeout.

Back in the game, they passed the ball off to Luke Lango, desperate for a three that would bring them into overtime. Sadly, there was no such luck, and the game was settled at 57-54.

The girls' game was equally well fought. Led by captains Rachel Hess, Stephanie Wong, and Grace Leishman, the girls worked together to put up a strong match. However, Occidental managed to widen the lead, resulting in a 65-45 game.

Emotions ran high that evening, with a lot of support from the fans on both sides, and as the girls gave the other team high fives, the Techers filed out of the gym for the bus ride back to campus.



Junior Andrew Hogue successfully puts up a shot early in the match.

-Alex Hsu

Beavers swim teams split victories in second Chapman meet

GoCaltech

For the second time this season the Caltech swimming and diving team squared off against Chapman.

The previous meeting was officially competed as a non-conference meet while Saturdays contest counted in the SCIAC standings. As with the first meeting, the Caltech men brought home a victory while the women grabbed a few first place finishes but fell in the team competition.

Chris Bradley and Kevin Yu played key role in the men's team win. Each of them won two events and valuable team points in a meet that was tight throughout. In the 13 events, Caltech won seven of them in grabbing the close team win. It is the fourth straight time the Beavers have posted a head-to-head win over the Panthers.

Bradley cruised to a win in the 200-yard freestyle event by recording a season best time of 1:54.58. He also notched a season best time of 51.67 to win the 100-yard freestyle race by .12 seconds over Mitchell Halbert.

Kevin Yu recorded his first of two win in the 200-yard IM event. Yu touched the wall in 2:06.75 which was nearly 10 seconds faster than the second place competitor. In the 100-yard backstroke the

sophomore lead a contingent of Beaver swimmers by winning in 56.87. Matt Lappin and Galen Gao finished second and third respectively as Caltech scored 14 team points in that race.

CJ Culpepper was a key

with a time of 23.49. He was one-hundredth of second faster than the third place finisher. The day's final event saw the 200-yard freestyle relay team win by just under four seconds in a time of 1:35.65.

During the women's competition the Beavers took home two first place finishes. Jacqueline Masehi-Lano won both the 50-yard freestyle and 100-yard butterfly competitions. During the freestyle event the junior touched the wall in 26.35 to outdistance herself from her nearest opponent by .67 seconds.

Masehi-Lano won the butterfly event by over three seconds as she recorded a time of 1:00.71.

While Caltech didn't win any other event they had other solid

efforts by a handful of competitors. Kalyn Chang finished second in the 100-yard freestyle event with a time of 1:01.80. Iris Liu put together a season best time in the 100-yard breaststroke with a time of 1:20.70.

Also worth noting for the women's team was Zofii Kaczmarek's efforts during the diving competition.

Still learning the ins-and-outs of diving in first-year with the sport, Kaczmarek brought home third place team points in both the one- and three-meter events.



Zofii Kaczmarek competes in diving against Chapman.

-gocaltech.com

contributor as he recorded a total of 11 team points in the long distance freestyle races. The junior started the day by winning the 1650-yard race in 18:53; 18 seconds better than his closest competitor. In the 500-yard race Culpepper's time of 5:23 was just five seconds slower than Austin Roberts of Chapman.

Rounding out the individual winners for the Beavers was Leon Ding. The first-year took top honors in the 100-yard butterfly with a time of 58-seconds. Ding also grabbed second place during the 50-yard freestyle competition

Weekly Scoreboard

Women's Basketball
vs. Chapman
L, 91-58 Final

Men's Basketball
vs. La Verne
L, 59-51 Final

Women's Basketball
vs. La Verne
L, 63-45 Final

Men's Tennis
at Biola
L, 5-4 Final

Men's Basketball
at Occidental
L, 57-54 Final

Women's Basketball
at Occidental
L, 65-45 Final

Unoriginal Jokes

Kerry Betz



A Sense of Humor

Audrey Liu



For more photos, videos, and archives of previous issues, check out the Tech website!

tech.caltech.edu

The California
Tech
Caltech 40-58
Pasadena, CA 91125