The Caltech Project
Survey to map Caltech social network
will be out to students next week

By Sarah Marzen
STAFF WRITER

Caltech Professor Jean Ensminger has spent the past thirty years mapping the social network in an East African village. Now, she has turned her eye towards a completely different culture: the Caltech undergraduate population. Next week on Tuesday, all Caltech undergraduates will be asked to take an anonymous survey that will be used to map the undergraduate population’s social network.

In the survey, students will be asked to name friends and answer questions about personal values. The results will be used to map the cultural preferences. Of the undergraduates, 90% of them will be asked to take the survey. “It’s worth a shot, but you won’t get a very high response rate,” said Ensminger. “But even a low response rate would make interesting data set. Social network analysis has never been done thoroughly with this many variables.”

However, there is a potential stumbling block in all of this. “A low response rate would make the database ‘stale’. Ensminger hopes for a 90% or better response rate, which would ensure that all Caltech undergraduates are intensely engaged in the social network.

At the college, students are asked to name friends and answer questions about personal values. The resulting database, although not a comprehensive database. She has named the entire endeavor “The Caltech Project.”

“I don’t want to oversell this as completely unique, but I think it has the potential to be a very powerful tool for understanding
hun. ”

Caltech Takes First Place at the Pasadena Collegiate Field Tournament

By Tina Ding
EDITOR IN CHIEF

It’s noon, Saturday April 3rd, and the sun is shining down on the fields of the Rose Bowl. Anthony Chong and Robert Karl are intensely engaged in the Monster Croquet final, while the giant polka dot beach ball is inflated in uniform design, Frisbee, Cheeseburger, and Meteor Catch.

Caltech snatched first place in the annual Pasadena Collegiate Field Tournament. The event was thrown by the City of Pasadena, to showcase the seven Pasadena colleges by pitting them against each other through a series of fun interactive outdoor games and activities conducted on the emblematic Rose Bowl. The six Pasadena colleges Caltech, Pasadena City College (PCC), The Art Center, Fuller School of Art, Pacific, and the Le Cordon Bleu College of Culinary Arts were judged in seven activities. The activities were uniform design, Monster Croquet, Frisbee, Cuesday Catch, and Meteor Catch.

Caltech snatched first place in uniform design, Frisbee, Best Cheeseburger, Puzzle, and Giant Croquet. The Einstein uniform, consisted of white curly hair wig, glasses, mustaches, and orange uniforms. In Frisbee, according to Tom Mannion, the Caltech team threw them 20-30 yards farther than all the other schools.

Meteore Catch was supposed to be the event that was dedicated to the students that were judged in not knowing what’s going on. "I have really high expectations, I would have still exceeded them," said Sargent.

The colleges were fully represented, each other through a series of fun interactive outdoor games and activities conducted on the emblematic Rose Bowl. The six Pasadena colleges were judged in seven activities. The activities were uniform design, Monster Croquet, Frisbee, Cuesday Catch, and best Cheeseburger, Puzzle, and Giant Croquet. The Einstein uniform, consisted of white curly hair wig, glasses, mustaches, and orange uniforms. In Frisbee, according to Tom Mannion, the Caltech team threw them 20-30 yards farther than all the other schools. The Meteore Catch was supposed to be the event that was dedicated to the students that were judged in not knowing what’s going on. "I have really high expectations, I would have still exceeded them," said Sargent.
The Not-So-Great Society: How a Moderate President Bought Healthcare for All

By Evans Boney
Contributing Writer

Many have hailed President Obama's recent Healthcare Purchase as something Progressive and wonderful, like Medicare, probably because Obama's White House Office seems very intent to pretend these two things are the same. After all, this was the largest single government expenditure on Medical Expenses, so how could Obama's Great Society help but be just as Great — if not better than LBJ's?

Well, duh...Obama...it's because you didn't actually use all of the government spending to help people. Sure, Medicare is being abused, but at least it didn't start out by mandating everyone purchase private healthcare. Social Security didn't send everyone to their local Charles Schwab. This Healthcare bill, and its new society, is not so great because it doesn’t have as its primary achievement cutting costs. It has, as its achievement, covering people with private healthcare.

Now is that a Great Society? Nope, it's just a huge healthcare purchase. This comes with enough new regulations on insurers (and jobs to enforce them) that I don’t think it’s necessarily terrible, but Jesus, why do we think private insurers know how to run healthcare? The internet has been used by everyone for over a decade, and yet my doctor still needs me to remember the last time I had a vaccine? That’s an embarrassment, and Obama still hasn’t taken them, or doctors, or anyone to task for not keeping public health at the top of their agenda. He has rewarded them with the biggest government contract of all time, and that is to his discredit.

To his credit, he passed something. After 15 months, he finally pinch a major loaf of legislation down the toilet of congress. What an embarrassment to democracy here though right? Was anyone really proud of their country that day in congress? Or just relieved that we finally had a congress that did something, anything. I know that I just felt relieved: that congress did something besides Steve King'sREAMOFAurtothedebateonmedicalinsurance.Obama, cool as you like, spent all of 2 weeks delaying vacations to eventually ram this worm-infested bill through the assholes of congress. Why not do that earlier... before all the goddamn worms? Forgive me for not calling this Healthcare Purchase a Great Addition to the Great Society. I call it the Not-So-Great Society, defining a compliant President’s acquiescence to the status quo over his campaign promise for change.

A Letter to the Editor

IHC ‘Joke’ In Poor Taste

I am writing to express my disappointment with IHC Chair Tim Black's decision to e-mail the undergraduate community with poorly chosen April Fool's joke. As some of you may recall, we received an e-mail on the 1st indicating the creation of a "Science Review Committee", one that is being formed as a part of a stipulation of a federal grant, and is part of a nationwide program that is looking at science. The message goes on further to say "Additionally, within the last year, some labs have violated a number of Caltech policies, including the fire policy and harassment policy, and some new researchers have felt uncomfortable." Does Mr. Black feel that our fire and sexual harassment policies are fodder for a joke? Should our elected student leaders act in such a way? In an attempt to redact his previous message, Mr. Black sent out another e-mail the next day, saying "Per perhaps my message was too subtle...". Or perhaps it should not have been sent to begin with.

Travis S.
IHC

Weekly Meeting - Dabney – April 2, 2010
Present: Tim Black (chair), DK Lim (Avery), Chris Whelan (Blacker), Andrew Price (Dabney), Alex Lapides (Fleming), Lucas Hartsough (Lloyd), Paul Fleiner (Page) Will Steinhardt (Ricketts) Dan Kolodrubetz (Ruddock), Laura Conwill (secretary)

Guests: Daryl Coleman, Sarah Li, Michelle Ton, Dan Thai

Cheese
Tim brought cheese, Wisconsin’s major export. He points out that it is far better than California cheese.

Ricketts-Ruddock Transaction Saga [final installment]
Will’s 30-cent check to Dan might bounce. If it does, he’ll write a new one.

Dean Search Committee
The IHC has finalized its recommendations for the Dean Search Committee and has submitted these names to Annelia Sargent.

Resident Guide to Institute Housing
Alex, Andrew, and Tim talked to Peter about the Resident Guide to Institute Housing. In general, people will be able to keep their pets; Peter is still working on the phrasing of the pet rules. The $100 fine for staying in lounges is for people who are squatting (coming in early and staying there before checking in), rather than for people who have a room but are spending the night in the lounge.

Blacker Interhouse
Blacker Interhouse is next Saturday, April 10. A vote was taken to determine who was okay with Blacker Interhouse staying up a week later than usual, because Prefrosh Weekend will prevent it from being able to be taken down. Everyone is okay with this.

Committee Interviews
Interviews are coming up; next week are the sign-ups for Steward Committee Chair, Food Committee Chair, and Interhouse Ath Man. The following week will be the sign-ups for all of the other committees. Interviews for these committees will be conducted in two sessions.

IHC Meeting Times
This term, weekly meetings will be held on Thursdays.

Changes to Board Plan
Residents of Marks and Braun are now required to be on board; this will be brought up at the next meeting with Anneila.

Prefrosh Friday
We’re going to see about letting the prefrosh stay for dinner.

Submitted by Laura Conwill
IHC Secretary

Guidebook, or a Mishmash of Tour Guides?

By Edward H. Chen


Have you ever wanted to skip an art museum for a planetarium show, or even a tour of a power plant? Then this guidebook may be for you. It may not have any maps, but it can enrich a tour of America’s most interesting science scenery nonetheless. The science in this guidebook is explained in an understandable manner, and the pure science is mixed with an appropriate dose of perspective on the societal impact of the scientific breakthrough.

The author of this book, Duane S. Nickell, was motivated to write this book after conducting a scientific tour of Europe. He realized that “no scientific guidebook existed for the United States”. American science is often touted as the best in the world, and yet there aren’t very many books that spell out where the greatest scientific achievements took place in this past century. This book is one of only a handful on Amazon that avid travelers can use to wisely choose which locations are worth visiting.

When I started reading the book, I pretended that I had never been to the Pasadena area, but had heard about the California Institute of Technology, the United States Geological Survey and the Jet Propulsion Laboratory in the news every once in a while— that way, I was able to see clearly what kind of slant Nickell brought to the table.

He starts the section on Caltech with an explanation of the mission set forth by our founders (Noyes, Millikan, and Hale) and then he suggests a “self-guided” walking tour that “begins with a stop at the President’s residence”. In fact, the structure of the other sections follow this same guideline—Nickell presents the landmark as if the reader were taking a tour from a well-rehearsed tour guide. While he discusses the physics research going on in Bridge, Kellogg, and Sloan, I find it odd that he fails to mention a single contribution that Caltech has made in chemistry! About halfway through this Caltech review, he explains that the nose of Robert Milikan’s bust is rubbed “for good luck before exams” by the students. At this point, I realize that some content in this book is nothing more than a transcription of what a visitor would hear from a student tour guide on campus.

Fortunately, what makes this book useful is that it does a great job in stringing together the tour-like information of all these historical sites along with the scientific theories. This was definitely not an easy feat since he was also able to cover sites in 50 of the 50 states in 242 pages. In addition to covering Universities and National Labs, he was also able to cover various topics in four separate chapters: “Particle Accelerators”, “Nuclear Weapons”, “Energy”, and “Chemistry in Industry”. The physics and chemistry endeavors of the past and current century have revolved around these major areas. Choosing these topics demonstrates a strong understanding of what a “Scientific Traveler” would find interesting.

I would recommend this book to an independent backpacker from Europe, a high school student who’s taken a bit of physics, or even an entire family that may be interested in taking a day, or even a month to go exploring the country for scientific landmarks. The author provides well-digested content of the established scientific theories while pointing out the obvious fact that all up-to-date maps and modifications can all be found online. All in all, the tone of the book is not as pedantic as a high school teacher, and not as droning as a tour guide. He definitely didn’t win the “Presidential Award for Excellence in Science and Mathematics Teaching, the nation’s highest honor for science and mathematics teachers” for no reason.

A little background on the LHC: The LHC is a particle accelerator that collides protons at the highest possible energy. So far, it has reached 7 TeV, which is about 3.5 times higher than the energies of previous collisions such as those generated at the Fermi Lab in Chicago.

What the scientists working on the LHC project hoping to discover:

By creating these collisions, we can investigate the behavior of particles at extremely high energies. This helps us understand the fundamental forces and particles that make up our universe.

Beyond the Standard Model:

Beyond the standard model, the next most likely scenario, or one of the most compelling scenarios, is called supersymmetry. This theory suggests that every known particle has a partner which differs from it in 1/3 unit of spin. The reason we wouldn’t have seen any of these supersymmetric partners is because we presume that they are very heavy. Going to the energies of the LHC, we are able to search for these particles in a heavier mass range than was previously possible.

The LHC community

So we have different members of our group and there are students working on these different areas of physics; all pursuing different avenues to discovery and at the same time, helping us to fully understand our detector, calibrate it, and maximize our potential for discovery.

The progress that has been made

We have done a lot of special things in our experiment, both in terms of physics and technology. In physics, we have two major areas. One regards signatures which include the appearance of high energy photons. The second one involves invisible particles which show up in the detector as missing energy, and in particular, missing energy which is perpendicular with respect to the beamline. This is one of the most powerful ways to search for super-symmetry. Our detector, the Compact Muon Solenoid, is working particularly in that area together with her students and post-docs.

In terms of technology, there is a world-wide computing model that was invented by me in 1999 which is now the means by which groups around the world collaborate on this experiment and process the data locally, in part, and have people in many locations directly involved in the process of doing data analysis and getting at the possible new physics.

Working overseas, I also tackled the problem of international networking for our field and wanted to understand how to do that, we developed networks through several technology generations. We now operate the transatlantic network between the United States and CERN that serves our field. It is one of the biggest networks, not only in academia, but of anyone in terms of capacity. We also have the greatest knowledge of how to transfer data over long distances at high speed that anyone has. Early in the process of learning that, we worked with Professor Steven Low of Computer Science and Electrical Engineering. We also developed global systems that can monitor, help manage and potentially steer the data flow and other aspects of operations among all the sites.

What about societal impact?

The development of accelerators has had a big impact on industry. They have helped characterize atomic and molecular structure which has been useful in the development of drugs. They are also widely used in Materials Science and Industrial Processes.

Medical accelerators, of which there are thousands, are used for treatment and diagnosis. Then of course, we have the big example of the World Wide Web which was actually developed by a Summer Fellow. I learnt firsthand, that the ability to control global systems is something that very few people can do. So that clearly will have a societal impact. One of the most important non-technical things is that we learn how to collaborate without borders and create an environment which is not strictly hierarchical. I mean, we do have a leader, a selected person, but it’s not really so strictly hierarchical, and yet we’re very effective, and at the same time, we can work across borders so we have members from 40 countries.

Caltech’s contribution

We were also very active, for example in the first data taking that occurred last week. We got the first major result, which was just to show the peak from the decay of Pi0’s into two photons. A thing about our group which is kind of special compared to other institutions, is that we have a great deal of undergraduates in our research.

The best part about working on this project

It has taken many years to get to this point, and so this is a really special point. We don’t know what we’re going to see, but because of the increased energy, we’re very confident that we’re going to find something. So that’s an unusual situation in science—knowing that we’re almost certainly going to see something and we don’t know what it is!
one else commented on this or other specific violations during rotation. “My problem is that there is a considerable body of opinion that this is not the appropriate way to populate the houses, and it’s in the minutes of the Faculty Board meeting that there are a considerable number of people who don’t think that rotation should continue,” said Sargent. “It has the elements for some of [a] fraternity/sorority rash. That, I have heard over and over. Now the proponents, let’s say the IHC, and they believe it, say this is how [they] believe that each frosh finds himself in a housing situation that they find palatable.”

Eco-Rotation

According to the final recommendations of the ad hoc rotation committee, rotation would “end the fixed quotas of incoming students assigned to each house, such that houses that fail to attract sufficient rankings from incoming students will shrink (first by losing an off-campus alley, eventually by losing an alley within the physical house itself, and finally by disappearing).” According to Dr. Paul Asimow, the head of both the rotation committee and the Student Housing Committee (SHC), “We want to make it clear to the houses that the face they put forward needs to be attractive to on order of 1/8th of the freshmen.”

Under the new system, during the first year, each house would choose two alleys to be “at risk,” one inside the physical house, and one outside the house, such as Page 5, or Ricketts-Hazlett. During roompicks, underclassmen would pick into both at risk alleys normally, but with the only way to make it into the houses that they could be forced to live elsewhere.

If a house is extremely popular, then some of the underclassmen who live in the in-house-at-risk alley would move off-campus to accommodate the increased number of freshmen, and the additional freshmen would move into the vacated alley.

Contrariwise, if a house is extremely unpopular with freshmen, then one of its off-campus alleys could be either made unfurnished, or even donated to another house, according to Asimow. The upperclassmen living in that alley would then move back on-campus where they would fill the spots normally filled by freshmen.

If a house was unpopular in a second year, then its off-campus alley would be returned to it. However, an alley physically inside the house would be taken away, and again made unfurnished or donated to another house.

Similarly, for a third year of unpopularity, the house would lose both an on-campus alley and an off-campus alley; both would be made unfurnished, or possibly given to popular houses.

If a house was unpopular for a fourth year in a row, it would be disbanded by the IHC. According to Nick Rosa, former president of Ricketts house and a committee member, Tim Black, the current chair of the IHC, proposed a different system for dissolving houses. Under Black’s system, the house would simply not take any new freshmen. This would open up significant amounts of off-campus housing, which would be occupied by other houses, not by freshmen. The IHC Chairman stated that he disliked all methods of reseeding or dissolving houses, but declined to comment specifically about his own proposal.

According to Dr. Asimow, in practice, there may be a two year process to the current system. At first, the process reflects students’ preferences, and they are more likely to get into houses they rank highly. As soon as the remaining number of fresh who ranked a certain house sufficiently high is equal to the number of slots remaining in that house, those freshmen are placed in the house. However, if a house is unpopular for two years, then its off-campus alley would be returned to it. However, an alley physically inside the house would be taken away, and again made unfurnished or donated to another house.

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Using the survey
This term, twenty-five undergraduates in Ensminger’s An150 spring term class are already formulating hypotheses about Caltech’s social networks that they can test using the data. However, no undergraduates will actually be allowed to see the raw data for fear that they might identify individuals in the network.

“We’ve been exceedingly attentive to anonymity,” said Ensminger. Not even Professor Ensminger or her graduate students will be able to see individual names attached to raw data. Instead, a computer will assign proxy ID numbers to all the survey takers, throwing away all names entirely.

Even stripped of names, undergraduates will not be permitted to interact with the raw data set. Instead, an undergraduate will ask Ensminger or her graduate students to run certain statistical tests on the data, and the undergraduate will only see the aggregate statistics.

Ensminger declined to comment on what she expects to see from the social network analysis.

Past research
Although the survey is only rolling out next week, Ensminger has been interested in studying the undergraduate culture for a long time. “I became interested in the Caltech population when I first arrived on campus,” she said. “I had the concept for this class eight years ago.”

However, Ensminger was busy with several other projects and responsibilities—she was the Division Chair of HSS from 2002–2006 and has more recently begun to write a book on corruption, inspired by her social network findings in Kenya.

Decker Advances to NCAA Fencing Finals

D’Asaro does not appear to be resting on her laurels just yet. She is planning to compete in the upcoming Summer National Championships of the USFA (United States Fencing Association) held in Atlanta, Georgia. As the largest fencing tournament in the world, the event hosts approximately 4,000 individuals over ten days.

Decker Advances to NCAA Fencing Finals

Caltech Wins Pasadena Collegiate Field Tournament

Represented in all games, although Caltech had the highest number of spectators.

“It was nice realizing that we were part of a bigger Pasadena college community,” said Anthony Chong, Captain of the Caltech team who also sang the national anthem at the event.

According to Mannion, a PCC student approached Carol Caramichael, the First Lady of Caltech and Faculty Associate in Engineering and Applied Science, and asked if Caltech can prank PCC in the future. “All the schools had a great time,” he said. The City of Pasadena contacted Caltech a few months ago with the idea for this event. Over the last months, Mannion met with the city and other colleges to plan the event and finalize the date. “It was such a success that I expect we will have this [event] in the future,” said Mannion.

Photographs courtesy of Bob Paz and Anthony Chong
Student Athlete of the Week:
Ram Kandasamy (Men’s Tennis)

1. What is (are) your major(s)?
Ram: Computer Science and BEM

2. People will be surprised to know . . .
Ram: I didn’t eat beef until I came here. Now I can’t stop eating it.

3. Favorite place to eat on the road?
Ram: Subway, $5 footlong.

4. Favorite book?
Ram: The Count of Monte Cristo

5. Describe your sport in 3 words?
Ram: confidence, determination, strategy

6. What teammate has inspired you the most?
Ram: Rico Chiu, he’s an assistant coach now, but he played 4 years. He knows so much about the game and is very observant and helpful.

7. Favorite quote?
Ram: “Everybody wants to be a bodybuilder but nobody wants to lift no heavy ass weights” -Ronnie Coleman

8. Where do you get motivation from when things get tough?
Ram: My dad. He worked his way from a village in India to become successful in the US, and he’s truly an inspiration.

9. If you hadn’t come to Caltech where would you be now?
Ram: Probably at UC Berkeley.

10. Who is your favorite player at Caltech, any sport?
Ram: Nnoduka Enochulu, although he needs to get back on the track and show he’s still the fastest.

Caltech Men Pull of Best Performance of the Season at SCIAC 4-Way Meet
April 3, 2010

Alex Lapides took first place in the High Jump against CMS, Cal Lu, and Redlands with a season best of 6’-4”. He also ran the 110HH for the first time in his collegiate career and took 1st place against Cal Lu, 3rd against Redlands and 4th against CMS with a time of 17.09 moving him on the 2010 SCIAC Top 10 list.

The 4X100 relay team made up of Lapides, Brice Nzekou, Kyle Martin and Mitchell Arene ran a season PR with a time of 43.55 beating their previous best of 44.42, a time that moves the relay team up to 4th in SCIAC this season.

Brice Nzekou ran a lifetime PR in the 100m with a time of 11.22 and finished 1st against Cal Lu, 2nd to CMS, and 4th to Redlands moving up to 5th on the season’s SCIAC Top 10 list. He also ran a lifetime PR in the 200m with a time of 23.01 moving him up onto the SCIAC Top 10.

Kyle Martin ran PRs in the 100m and 200m with times of 11.52 and 23.97, respectively. Kunmi Jeje ran PRs in the 100m and 200m with times of 11.78 and 24.35, respectively.

Upcoming Games

Wednesday, April 7th
5pm W Water Polo @ CMS

Friday, April 9th
3pm Baseball vs Cal Lu
5pm W Water Polo vs. Chapman

Saturday, April 10th
9am Track & Field @ Pomona Invite
9:30 W Tennis vs Oxy
9:30 M Tennis @ Oxy
11am Baseball @ Cal Lu
11am W Water Polo @ Whittier
2pm Baseball @ Cal Lu

Wednesday, April 14th
7pm W Water Polo vs Pomona-Pitzer

Weekly Weather Report

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<tr>
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<td>40</td>
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</tbody>
</table>
The DO’s…
... and DON’Ts of Interhovse Parties

Boy Says | Girl Says
---|---
**DO** | **DO**
Be welcoming and outgoing, meeting and socializing with new people. | Hold an interesting and engaging conversation with her about topics you’re both interested in.

**DON’T** | **DON’T**
Stand in a closed off group consisting solely of guys. | Substitute the water with Axe.

**DO** | **DON’T**
Have a good friend introduce you, put in a good word, and be ready to swoop in to save you at opportune times. | Attempt to dress nicely.

**DON’T** | **DO**
Have your drunken friends swear that you saved all of their lives by performing the Heimlich maneuver when they were all choking on the same chicken bone. | Wear a white suit and later change into a sweater vest with nothing on underneath.

**DO** | **DON’T**
Break the ice with an interesting and entertaining comment or question. | Try and talk to girls.

**DON’T** | **DO**
Offer to play a guessing game, and then proceed to “guess” her name, house, major, birthday, and favorite band. | Break the ice with an interesting and entertaining comment or question.

**DON’T** | **DO**
Ask out a girl standing next to the girl who just rejected you. | Know that if she runs away, she is not playing hard to get.

**DON’T** | **DON’T**
Stand two inches behind her while she is dancing and expect her to back up into you while you dance like a baboon in heat. | Stand on the dance floor having awkward conversations.

**DO** | **DON’T**
Wear a white suit and later change into a sweater vest with nothing on underneath. | Expect your original rap to serenade her into your den of love.

**DON’T** | **DON’T**
Serenade her with your original composition, telling her how you felt when you saw her picture on Donut for the first time. | Go on the dance floor, and get bucked and crazy as if you don’t have a care in the world.

Weekly Horoscope

<table>
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<tr>
<th>(Mar 21 - Apr 19)</th>
<th>(Apr 20 - May 20)</th>
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<tr>
<td>Aries</td>
<td>Taurus</td>
<td>Gemini</td>
<td>Cancer</td>
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<tr>
<td>Today you realize that the only solution to the real equation you are studying involves imaginary numbers.</td>
<td>This week, your GPA will continue to fall, as will your self esteem.</td>
<td>The BOC is onto you, expect Andrew Price be to watching you at night.</td>
<td>This week you will realize that Stalin achieved more of his 5-year plans that you have.</td>
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</tr>
</thead>
<tbody>
<tr>
<td>Leo</td>
<td>Virgo</td>
<td>Libra</td>
<td>Scorpio</td>
</tr>
<tr>
<td>The next week, your spam folder will be more interesting and applicable than your inbox.</td>
<td>You will soon realize your student loans do actually need to be repaid.</td>
<td>You base case does not work, and your induction does not either.</td>
<td>This week, you will try a new place in Pasadena, only to realize they are too expensive.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>(Nov 22 - Dec 21)</th>
<th>(Dec 22 - Jan 19)</th>
<th>(Jan 20 - Feb 18)</th>
<th>(Feb 19 - Mar 20)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sagittarius</td>
<td>Capricorn</td>
<td>Aquarius</td>
<td>Pisces</td>
</tr>
<tr>
<td>This week, you will realize that Southern California has both snow and surf, but you have seen neither.</td>
<td>For this week, think about Newton’s second law: for each action you do, you go further away from your goals.</td>
<td>Bring a poncho to dinner, you are going to get floated this week.</td>
<td>Try to build on your previous successes: go back to high school.</td>
</tr>
</tbody>
</table>

XKCD by Randall Munroe