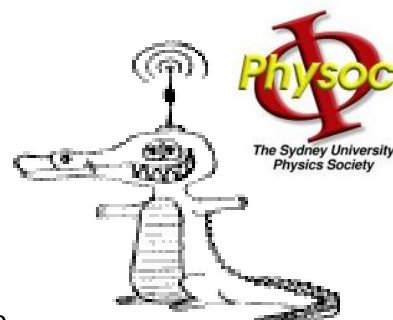


JEREMY



Semester 1, Issue 2

WEEK 10

In this issue...

- A message from Physoc president **Jess Bloom**
- Meet the Team REDUX
- Quotes from your lecturers
- More silly, silly drawings

Five Places in the Physics Building You Didn't Know Existed

Intrepid explorer **Stephanie Momsen** leads the way

The Physics Building. If you're anything like the team at Jeremy, it's the building where you spend rather a lot of your time. The tragedy of physics is that students meekly shuttle between Slade and LT5 without taking the chance to explore all that the Physics Building has to offer – although at least that route offers a chance to spin the chaos wheel. Here follows a list of five awesome places that you didn't know existed.

1. The Basement

That's right, Ladies and Gentlemen, the ground floor of Physics is not, in fact, the bottom floor. Take a wrong turning near the Physics front office and you'll find yourself heading down narrow, uneven stairs to a long and narrow corridor. Strange pipes and cables twist overhead and signs caution you of delicate experiments waiting behind closed doors. Postgrads who are given offices down here may never see the sun in the course of their degree, and there are rumours of physicists whose bio-rhythms are so warped by the unnatural surroundings that they are able to stay awake for 76 hours at a time with only the odd mad cackle to betray their sleepless state.

2. Nathan's Rooms of Props

You may have noticed a tall, curly haired man who hangs out in your lectures the days you have cool demonstrations. He's not a precognitive mature age student, he's the aptly named Nathan Apps, who is in charge of physics' demo equipment. Like Willy Wonka's Factory for science nerds, his storerooms are places where bicycle

wheels hang from the ceiling, Jacob's Ladders lean casually in the corner and diffraction filters lie safely in their boxes. This reporter has been privileged enough to see not one, but two of his storerooms. We've seen two. We suspect there are more.

3. The Roof

Well, of course you know the roof existed – the physics building is neither open to the elements nor infinitely high. And if you're one of the cool cats that comes to Physoc barbeques, you've even been up there. But did you know that the roof is covered in lead sheets? Bet not. The other cool fact about the roof relates to the reason it goes down in the middle. It's because when it was being built the head of St Pauls was on the University board and he didn't want his office to lose the city views! Now, of course, Manning and the education buildings have put a stop to that, and we're left with a building which is about 6 storeys high, but only at the ends.

**LESS
TORQUE
MORE
ACTION**

Have you got your Physoc shirt yet? They're only \$15/\$10 with ACCESS!



Facebook not fulfilling your procrastination needs?

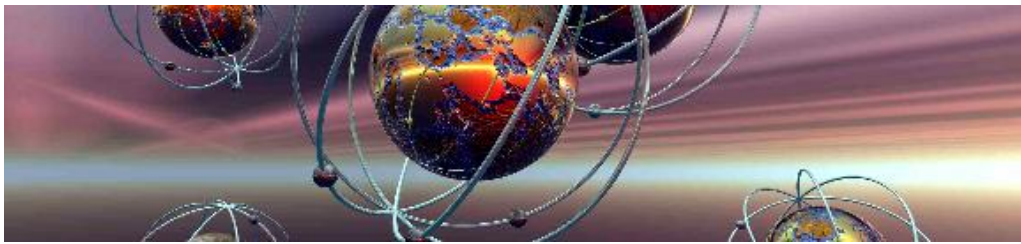
Check out Nobel Prize Educational Games:
http://nobelprize.org/educational_games/

JEREMY

The eighth day of the week?

The Arabic word for "journalism"?

Send your conspiracy theories to us at usydphysoc@gmail.com



If my position and momentum are uncertain, then there's a very slight chance that I'm riding a wave at Bondi Beach right now.

Five Places In The Physics Building You Didn't Know Existed

Continued from front page

4. The Annexe

You know that building, next to the car park? Technically it's not in Physics, but it is connected with a really nifty bridge. This is the annexe, where astrophysicists go to.... study. Houses the third year labs on its bottom level, then Complex Systems, Theoretical Physics and finally Astro up the top. Out of the public eye, people in the Annexe feel free to decorate their doors with a panoply of Nerddom. Wander up and check it out some time. Used to contain the Physics TSP Computer lab, where aspiring physicists could gather to 'collaborate' on Mastering Physics. Physics Computer Lab, you are sorely missed.

5. The Uncharted Realms

Because let's face it – we don't know everything there is to know about the Physics Building (a situation that will have to be rectified before Physics Hide and Seek). There are still plenty of places left to explore, what with the upper levels, those labs with all the warnings about lasers, etc. Although it may seem intimidating, students are free to explore University grounds and buildings, so long as they don't make a nuisance of themselves. So we encourage Jeremy readers to get out there, push the limits of known space, and if possible, report back with pictures!

From the quantum (soap)box...maybe

A message from Physoc president **Jess Bloom**

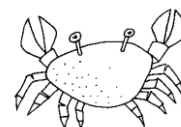
Space yacht. There, I said it. Potentially the third most awesome phrase in the English language (in a competitive field, behind "I can has cheezburger?" and "your lecturer is stuck in Paris so your Nanoscience assignment has been postponed for a week"). It conjures up images of Pan Galactic Gargle-Blasters and interstellar cruises, where the young and beautiful of the solar system take in the views on Pluto (not a planet, but still possessed of many fine qualities. For one thing, it is hard to get lost, even for me, and one never runs out of ice at parties). The yacht itself is due to be launched on May 18, by the Japan Aerospace Exploration Agency. It's called Ikaros, propels itself by bouncing solar particles off 'sails' thinner than a human hair, and can change direction by angling its sails with respect to the sun, like a boat in the wind. It beats CityRail hands-down. Admittedly, we can't all come and go by bubble, or sun-bounces, but still, a girl can dream.

Actually, the yacht itself is more the low-down-on-the-sexiness-ladder kind of sample-collecting operation (Ikaros stands for Interplanetary Kite-craft Accelerated by Radiation of the Sun, and will carry a Venus satellite), but it's still hard to believe it's the child of the same species that produced the Taylor Swift music video "You Belong With Me". I'm sorry, but any song involving the phrase "cheer captain" is not worthy musical heritage to Led Zeppelin and, what's more, you just can't headbang to it.

Leaving aside the fact that my musical taste is clearly vastly superior to 99% of the population, most of whom seem to think that Taylor Swift deserved to share the stage with Stevie Nicks at the Grammys or wherever, space yachts are *cool*. Japan: land of sushi, Harajuku fashion, space yachts, and very few tall blonde pop stars. Now, there's a tourism slogan I could really buy into...

Back on the ground, Physoc has had a fantastic few weeks. We have had talks by Dr Michael Biercuk and Prof. John O'Byrne, a Careers Forum with Dr Phil Dooley & Prof. Ben Eggleton, and are gearing up for Prof. Bryan Gaensler's lecture, and also our 'how not to epic-faceplant-fail at Physics exams' with Prof. Dick Hunstead (which will probably have a better, more official-sounding title after he reads this and voices his...concerns). We have had *people turning up in costume to extra Physics lectures*, which is pretty fabulous, and are selling our new run of t-shirts like iPads, but with a less awkward name. There has been much, much *free cake*, which doesn't cost any money at all! It's the opposite of expensive!

So bring on the revolution, fix your future, get over to the dark side, and stay away from magnets... and if that didn't make sense to you, then *toys out of the cot* and you're not invited to my birthday party.



Meet the

TEAM

"The editor class is overpowered!" - Anonymous
<http://www.physics.usyd.edu.au/physoc/>



The FIRST YEAR REP

"Hi, I'm Clare Galvin. I should be doing some work now, but, well, I'm not. I'm writing this because I'm the first year representative who isn't Rob.

I like unicorns, cats, fish, procrastination, slightly odd films, shiny things, opera, heavy metal (both musically and chemically), grammar and, funnily enough, I'm at least mildly interested in physics.

And cake – we must never forget the cake (however much of a lie it is). I want to be a quantum physicist when I grow up. Or, failing that, a dinosaur.

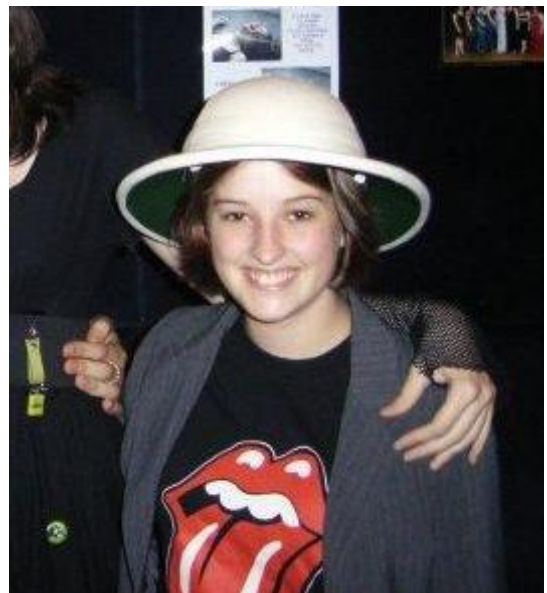
Well, I think that's suitably description-like, so I'll leave it at that."

\\(^.^)\\

The QUEER OFFICER

When it comes to science, **Stephanie Momsen** is a Bayesian Realist. Also a third year Physics student. And she will *never* get tired of Copenhagen Interpretation Fantasy Camp.

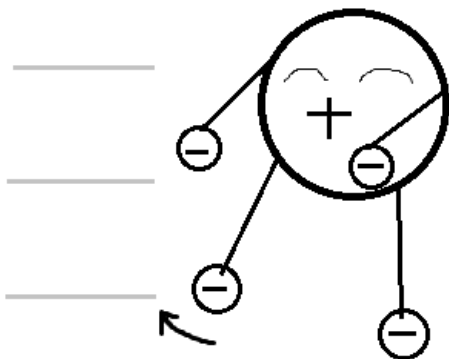
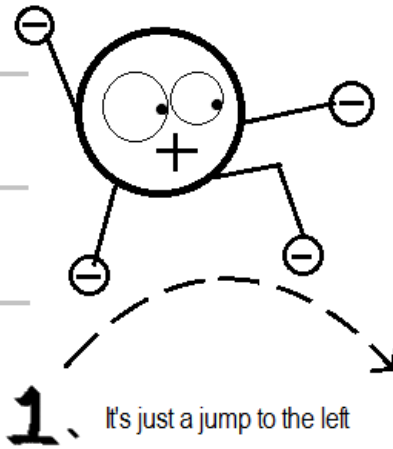
For those with short attention spans, she also wrote this issue's cover article.



JEREMY

"Stuff you can't Google"

Dielectric
Time
Warp!



3. PHENOMENOLOGICAL
ELECTRODYNAMICS

"SAY WHAT?" – Your lecturers, recorded for posterity

"Go see *Alice in Wonderland* if *Avatar* is too scary because it has all the blue people." – Tim Bedding on 3D glasses

"This is a well-known result, to those who know it well." – Serdar Kuyucak

"Now bosons...they like to party." – Stephen Bartlett on the Pauli Exclusion Principle

"Any day with a geometric series is a good day. Any day with a Riemann zeta function is a great day, it is extremely rare to catch one in the wild." – Martijn de Sterke

"Your light cone points in one direction and one direction only, and that is to your doom." – Geraint Lewis

And from our friends in the School of Mathematics and Statistics...

"Let A be an $m \times n$ matrix, B an $n \times p$ matrix, and C a $p \times \dots$ what other letters do you have in your alphabet?" – Alexander Molev

"There is a remarkable proof with rating M for mature audiences only." – Bob Howlett