The End of Mortality

:: cover story ::

Never have enough time to do your assignments? Your favourite *Aqua Regia* examines the ultimate extension that you could ever receive.

With the increasing development of technology and greater understanding of human health, it is not surprising that life expectancies have dramatically increased in the last few decades. Already suggestions have been made by Cambridge University geneticist Dr. Aubrey de Grey that mortality could be increased to 1000 years.

Dr. de Gray believes that ageing is a culmination of molecular and cellular damage over the course of time. He claims that Strategies for Engineered Negligible Senescence (SENS) will target events like cells being lost without replacement and mutations in our chromosomes, and thereby eliminate the characteristics of ageing.

He believes we are only ten years away from producing a laboratory mouse which will extend its middle age to twice its present lifespan and then indefinitely. And 10 years thereafter, the therapies can be administered on humans.

On an ethical plane, he says that "There is no difference between saving lives and extending lives, because in both cases we are giving people the chance of more life", and that "If changing our world is playing God, it is just one more way in which God made us in His image'.

SciSoc? What’s this SciSoc thing that you talk about?

SciSoc (the Science Society) is the Faculty Society that represents all undergraduate Science students at the University of Sydney. It encourages greater student participation in social activities and the running of the Faculty.

SciSoc is proudly supported by APESMA. See page 3 for more information.

:: Letters from the editor ::

read what your fellow students are thinking!

:: Puzzles, crosswords and other fun things :: - for the train ride home

:: Aqua trader ::

Smorgasboard of Goodies

Delicious Nutritious BBQ

Photos from the SciSoc BBQ! Can you find yourself in here?

:: cover story ::

Will a longer life just result in more of the same rat race?
Less is more

Dear Aqua,

I wish to commend you on your effective use of whitespace in the previous issue. The less ink that is used in the production of each copy of the Aqua means less waste entering our pollution-saturated environment. However, by the same reasoning, your $25 prize for the best article must be scrapped immediately, for it promotes increased paper use.

Robert Green
Arts/Social Work VIII

A pat on the back

Dear Aqua,

Never knew science student hard-working. I say to you I like you.

Harry Wong
Commerce I

You’re all so unoriginal

To the lovely editors of Aqua Regia,

Stop copying us! It’s a stupid idea anyway; we’ve always stuck it in because we’ve got nothing better to write - there’s really only so much you can say about VSU and reviews of minor films showing at small unknown cinemas. How about you guys publish real letters, while we publish the fake ones? Deal?

With love,

UR Eds

Your chance to rant

To our reader,

Write to us!
aqua@sci.soc.usyd.edu.au

NOTICE OF GENERAL MEETING

The University of Sydney Science Society will be holding a general meeting on Friday the 15th of April at 1pm in the Holme Building Reading Room, in order to make two amendments to the constitution.

Amendment 1.
Clause 3.1.a - MEMBERSHIP
From:
Ordinary Members: Composing all undergraduate students proceeding to a degree or diploma in the Faculty of Science (other than a degree in Pharmacy) shall automatically be members of the Society.

To:
Ordinary Members: Composing all undergraduate and postgraduate students proceeding to a degree or diploma in the Faculty of Science shall automatically be members of the Society.

Amendment 2
Addition to clause 29
29.1.n Bookstore Manager

As you can see, getting involved in SciSoc is easy, and you can get your feet wet or dive in! Come and have a chat to the friendly folk at the BBQs, or attend our major events this year, the Trivia Night and the Bucky Ball, and show your support for SciSoc!

And while we have your attention, take a look at the information from our sponsor APESMA and the brochure included from Golden Key.

Enoch Lau and Julie Mok
13 April 2005
a word from our sponsor

APESMA

The Association of Professional Engineers, Scientists and Managers Australia (APESMA) is the largest association in Australia that looks after the employment interests of professional employees. The Association is a national organisation with over 25,000 members in all areas of the workforce, in both the private and public sectors, as well as over 15,000 student affiliate members. The professions the association represents include engineers, scientists, architects, pharmacists, surveyors, IT professionals and veterinary scientists.

APESMA's first priority is to support members in maximising their salary, employment conditions and career advancement. APESMA does this by negotiating to establish and update fair minimum salaries and conditions for professionals, while providing expert advice to allow them to negotiate their own individual contract. APESMA also supports members professional advancement by providing market remuneration information for salary packages. In addition the association provides free industrial representation to members should the need arise.

APESMA plays a vital role in promoting the career development of its members through its management education program. As well APESMA provides a range of member services to support members in their professional life, such as free workshops and seminars, as well as significant discounts on banking, financial, legal, superannuation, insurance and other services.

Student membership

APESMA has free membership to undergraduate students of Engineering, Science, Information Technology, Architecture, Surveying, Pharmacy and Veterinary Science.

APESMA gives students the edge in securing employment, with information on job applications, resumes and interview skills. When looking for graduate employment, APESMA provides confidential advice on employment contracts and the conditions of any job offer. APESMA also conducts regular employment and salary surveys to keep students up to date with market salaries for their profession, ensuring that new graduates make the most of their professional employment.

To ask about APESMA's free undergraduate student membership contact Amrah Jay, NSW Membership Development Officer on 02 9263 6500 or ajay@apesma.asn.au. To apply online at http://www.apesma.asn.au

>>> mmm...

Yummy! SciSoc BBQ <<<

Every second Wednesday (on the odd numbered weeks), SciSoc has its BBQ - FREE with the funky 2005 SciSoc T-shirt, or a great-valued $2 if you don't have one.

And it’s where you get to pick up your fortnightly dose of the latest in science news, announcements and random stuff - AQUA REGIA!!!
## Interfaculty Sports

<table>
<thead>
<tr>
<th>Sport</th>
<th>M/F</th>
<th>Venue</th>
<th>Date</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cricket</td>
<td>M</td>
<td>Oval 2 / St Paul's</td>
<td>21-24 March</td>
<td>9am-5pm</td>
</tr>
<tr>
<td>Netball</td>
<td>Mixed</td>
<td>SUSAC</td>
<td>6 April (Wed)</td>
<td>9am-1pm</td>
</tr>
<tr>
<td>Soccer</td>
<td>M</td>
<td>Square / St John's</td>
<td>27 April (Wed)</td>
<td>12noon-4pm</td>
</tr>
<tr>
<td>Soccer</td>
<td>F</td>
<td>Square / St John's</td>
<td>4 May (Wed)</td>
<td>12noon-4pm</td>
</tr>
<tr>
<td>Rock Climbing</td>
<td>M/F</td>
<td>The Ledge</td>
<td>11 May (Wed)</td>
<td>12noon-4pm</td>
</tr>
<tr>
<td>Touch Football</td>
<td>Mixed</td>
<td>Square / St John's</td>
<td>18 May (Wed)</td>
<td>12noon-4pm</td>
</tr>
<tr>
<td>Softball</td>
<td>F</td>
<td>Square</td>
<td>25 May (Wed)</td>
<td>12noon-4pm</td>
</tr>
<tr>
<td>Ultimate Frisbee</td>
<td>Mixed</td>
<td>Square / St John's</td>
<td>1 June (Wed)</td>
<td>12noon-4pm</td>
</tr>
</tbody>
</table>

### BBQ!

If you ♥  SciSoc  give your support to
In Science the credit goes to the man who convinces the world, not to the man to whom the idea first occurred. 

We see only what we know. 
Johann Wolfgang von Goethe (1749-1832) German poet, dramatist.

I do not like it, and I am sorry I ever had anything to do with it. 

--- puzzle ---

Try to fill in the missing numbers. 
Use the numbers 1 through 9 to complete the equations. 
Each number is only used once. 
Each row is a math equation. Each column is a math equation. 
Remember that multiplication and division are performed before addition and subtraction.

--- crossword #3 ---

Across
1. The reason why the last two crosswords were all about biology and chemistry (5,5,2)
5. What rabbits and the number 2 can do (8)
7. Shrek (4)
9. A manufacturer of medicines (5)
10. Title given to appeal court judge (2)
12. Subset of the complex numbers (4,7)
13. They have colour and can be strange (5)
15. What you sing at karaoke (5)

Down
1. Popular demonstration done in the School of 8 Down (12)
2. The limit of a Riemann Sum (8)
3. What this crossword is (4)
4. The main constituent of 15 Across (4)
6. Thirty-one and a half million seconds (4)
8. 2005 is the International Year of what (7)
10. Just-in-time coffee (4)
11. First-in, first-out (5)
14. An important cereal crop (3)

Crossword #3: Proudly free of chemistry or biology words
hi, welcome to aqua trader...

**Airlock.** Authentic airlock, right from the famous Russian spacecraft Mir! In original working condition. Ring 1900-SCISOC for more information.

**Lonely Aqua Regia Editors.** Looking for readers to submit articles and letters to aqua@sci.soc.usyd.edu.au. Remember the $25 prize at the end of the semester for the best submission!

**Time wanted.** Will buy 1 hour of time for $500 o.n.o. or $2000 near exam time. Email jsmi6666@mail.usyd.edu.au.


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**Next issue... how YOU can help!**

:: **Quotable Quotes:** It’s the first couple of weeks back from uni, and lecturers are bound to be tongue tied. Send them in!!

:: **Articles:** Feeling journalistic? Or just bored on the train, and fiddling with your stylus on your PDA? Write an article, and the best article submitted during the semester will receive a $25 prize. No strings attached.

:: **Letters:** Write to us. Make us feel less lonely.

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Keep the emails rolling! Comments? Submissions? Anaerobic bacteria? Send them in!! We love to hear from you!! :)

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**Want to place an ad here?**

Visit [www.sci.soc.usyd.edu.au](http://www.sci.soc.usyd.edu.au) for more information on how you can advertise in the **Aqua Trader.** It’s free!

Alternatively, ask a friendly SciSoc helper at the O-Week stand, or at the fortnightly BBQs.

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Keep the emails rolling! Comments? Submissions? Anaerobic bacteria? Send them in!! We love to hear from you!! :)

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