

# Reporter

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## 2006 Hit the street with your feet

Why walking to work could result in lower levels of pollution

Tony Stephenson Communications

IMPERIAL researchers have discovered that your level of exposure to pollution can vary according to the method of transport you use, with travelling by taxi resulting in the highest level of exposure and walking one of the least.

Research published this month in the journal *Atmospheric Environment*, describes how the team from Imperial and the Health and Safety Laboratory, Buxton, measured and visualised exposure to pollution levels for a variety of different transport methods used to travel across London.

The researchers looked at five forms of transport: walking, cycling, car, taxi and bus. Levels of exposure to ultrafine particles for each were measured using a newly developed system that combines the use of an ultrafine particle counter and a video recorder.

Ultrafine particles are less than 100 nanometres in diameter and mainly traffic-related. Their small size and large surface area means it is possible to inhale large quantities, which makes them particularly dangerous.

The visualisation system allows video images of individuals' activities to be played back alongside measurements of the ultrafine particle concentrations to which they are exposed. As a result, most activities and behaviours that cause high exposure, such as being trapped on traffic islands and waiting in congested traffic, can be visibly identified.

On average, while travelling in a taxi,



passengers were exposed to over 100,000 ultrafine particles counts per cubic centimetre (pt/cm<sup>3</sup>), travelling in a bus resulted in exposure to just under 100,000 pt/cm<sup>3</sup>, travelling in car caused exposure to 40,000 pt/cm<sup>3</sup>, exposure while cycling was around 80,000 pt/cm<sup>3</sup>, and walking was just under 50,000 pt/cm<sup>3</sup>.

Imperial's Surbjit Kaur, first author of the paper, said: "It was a real surprise to find the extent to which walking resulted in such a low exposure. The higher exposure from travelling in taxis may come from sitting in the vehicle while being stuck in traffic, where you are directly in the path of the pollutant source. Also, the fact that taxis are probably on the road for much longer than your average car could cause an accumulation of ultrafine particles."

Dr Mark Nieuwenhuijsen, Environmental Epidemiology, added: "The particular strength of the system is its visual aspect. The

new monitoring and visualisation system is an effective environmental risk communication tool that can be used to identify, visualise and avoid hotspots of pollution."

The study was carried out as part of the DAPPLE (*Dispersion of Air Pollution and Penetration into the Local Environment*) project. This aims to provide a better understanding of the physical processes affecting street and neighbourhood-scale flows of air, traffic and people, and their corresponding interactions with the dispersion of pollutants. In addition to Imperial College London, the project consortium includes the University of Bristol, the University of Cambridge, University of Leeds, University of Reading and the University of Surrey.

DAPPLE is funded by the Engineering and Physical Science Research Council. Further information about the project and exposure visualisation samples can be seen at [www.dapple.org.uk](http://www.dapple.org.uk).

### IN BRIEF

#### A prize fit for a King

Professor Simon Donaldson, an Imperial mathematician, has been awarded the King Faisal International Prize for science. The award, for research of global influence, will be presented to Professor Donaldson in February 2006 at a ceremony in Riyadh, Saudi Arabia. It recognises his contribution to theories of pure mathematics that have strengthened the links between maths and physics, and have helped to form an in-depth description of the laws of matter at the sub-nuclear level. Professor Donaldson is now focused on applying his mathematical expertise to understanding and tackling global scientific problems such as climate change and disease. Professor Donaldson shares the prize for science with mathematician Professor M.S. Narasimhan, an honorary fellow at the Tata Institute of Fundamental Research, India.



#### Honoured for cardiovascular action

Emeritus Professor Colin Caro, Bioengineering, has been awarded the degree of Docteur Honoris Causa of the University of Paris XII—Val de Marne. The award is made in recognition of his scientific contributions in France. He was, for a number of years, a member of a cardiovascular 'action' (coordinated research programme) of the French government agency, DGRST (Délégation Générale à la Recherche Scientifique et Technique). He received many fellows and research students from France to study cardiovascular biology and fluid dynamics at Imperial.

#### New medical Dean for South Kensington Campus

Professor Timothy Williams, FMedSci, Head of Leukocyte Biology and Co-director of the MRC-Asthma UK Centre in Allergic Mechanisms of Asthma, has been appointed Campus Dean for the South Kensington Campus in succession to Professor John Couchman.

#### 'Holy Grail' of crystallography one step closer

New research published in PNAS shows how scientists from Imperial and the University of Surrey have developed a new technique for crystallising proteins. Crystallisation is the process which converts materials into three-dimensional crystals, enabling their atomic structure and function to be studied. One of the main problems in crystallography is getting the proteins to become crystals. To do this, scientists use a nucleant to encourage the molecules to form a crystal lattice. The team developed the theory that porous materials could act as a universal nucleant encouraging virtually any material to crystallise. They tested this with BioGlass®, which led to the crystallisation of the largest number of proteins ever crystallised using a single nucleant. Imperial's Professor Naomi Chayen, Biomedical Sciences, who led the research, said: "The first step in obtaining a good crystal is to get it to nucleate in an ordered way. The holy grail is to find a universal nucleant which would induce crystallisation of any protein."



## Imperial independence

Abigail Smith Communications

THE governing Council of Imperial agreed last month that the College will take the first steps towards withdrawal from the University of London.

The College will now meet with the Vice-Chancellor of the University, Sir Graeme Davies, and his team to discuss the terms of its withdrawal.

Imperial is an entirely self-governing institution and the University of London plays

no role in its decision-making processes. It also has a direct relationship with funding councils and collaborates with other London institutions without the involvement of the central University.

Rector, Sir Richard Sykes, said: "Imperial has an international reputation that is independent of the University of London. It is absolutely right that we should promote our own identity and award our own degrees."

"We value our many collaborative relationships with colleagues in other London institu-

tions, which were formed independently of the central University and will certainly continue to flourish regardless of our decision today."

Imperial applied for and received degree-awarding powers from the Privy Council in 2003, which are as yet unused. It estimates that the first undergraduate students who would receive Imperial College degrees would be the 2008 intake. All current students would receive University of London degrees or be given the choice of converting to an Imperial degree.

The College will now seek an amendment to its Charter from the Privy Council to remove a clause requiring it to observe the Statutes of the University of London.

## Southside demolished



Last month saw the last of Southside demolished and the rubble removed from the site. See page three for the winners of the time capsule competition.

## Science Museum Library resolution

Abigail Smith Communications

IMPERIAL and the Science Museum have announced a long-term solution for the continued future of the Science Museum Library this month, which ensures enduring public access to the library's most important collection at Imperial's Central Library building.

This agreement will ensure that the College and the museum, which have worked closely for nearly a century, will continue to work together to develop the library to meet the needs of the twenty-first century, with enhanced facilities and increased provision of study space.

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### In the next edition...

- 50, Not Out
- Day in the life of...
- New sports centre





Hay mowers developed by Imperial students and researchers respond directly to the needs of Mongolian farmers

## Engineering an end to poverty

Abigail Smith Communications

ENABLING some of the world's poorest communities to become self-sustaining is the aim of an Imperial-based organisation designing innovative technologies to tackle poverty.

Developing Technologies (DT) uses Imperial student projects to find low-cost technical solutions that respond directly to a community's specific situation.

DT aims to develop ideas in partnership with communities so that communities own and take forward new technologies. This means using locally-available materials and thinking about how things work in place, so that products can be repaired, developed and replaced locally. Keith Pullen, Senior Lecturer in Mechanical Engineering, and a co-founder of Developing Technologies, explained:

"The big issue is understanding how people work and what is available to them. There's limited use in handing out water pumps, for example, if no one has the capability to repair or replace them when they break."

Technologies such as a footbridge in Sri Lanka and hay mowers for Mongolian farmers are already making a real difference to people's lives, according to Dr Pullen.

"The hay mower is a perfect example of how important it is to work within communities rather than coming in from the outside assuming you know what they need," he says. "The Russians gave them tractors that are now rusting away unused because local farmers cannot afford to repair and run them. Our horse-drawn mowers respond specifically to the situation people are in and can also be manufactured locally."

The scheme gives organisations in developing countries access to skilled engineers and innovative ideas. It also gives engineering students at Imperial the chance to get involved in hands-on projects, which are overseen by DT's coordinator Ron Dennis, who has wide experience of working in developing countries. Mechanical Engineering undergraduate Caroline Robertson spent the past summer working with an environmental organisation in Spain to develop a pasteurising unit that uses solar energy to make unclean water fit for drinking. She said:

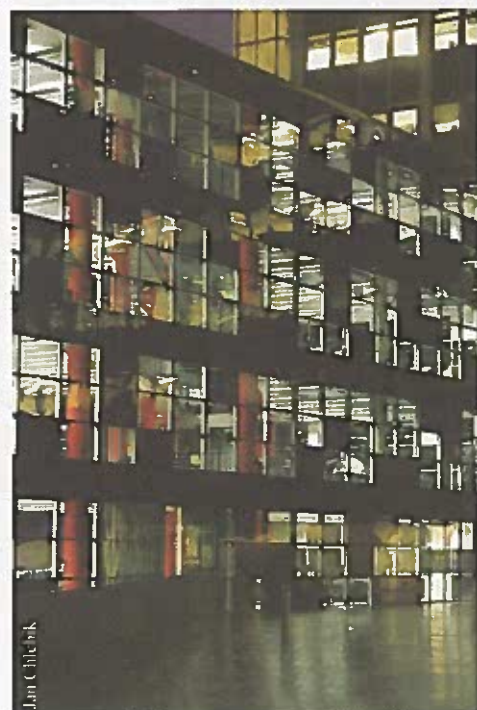
"I got involved with this because it's really challenging and it's also an opportunity to make a difference. The technical issues are interesting but the really important thing is cultural knowledge and awareness of how you are perceived. If you look like an outsider coming in to tell people what to do, it can easily create barriers."

Harnessing the commitment and expertise of students and staff at the College can make a real difference, according to Dr Pullen, who added:

"We are tackling poverty in a small scale way but over time that builds into something that can really change a lot of lives for the better. Sharing information and encouraging local buy-in is really the key to long-term sustainable wealth generation in the developing world."

The organisation now plans to develop links with universities in developing countries to improve the impact and sustainability of its work.

More information on Developing Technologies can be found at [www.developingtechnologies.org](http://www.developingtechnologies.org).



## A RIBA!

Allyson Andrews Estates

LAST month Stephen Robinson, a director of RIBA London (Royal Institute of British Architects) awarded a commemorative lead plaque to Spencer de Grey and David Rosenberg of Foster and Partners, architects of the Faculty Building. The Faculty Building was one of 22 buildings in the London area to win such an award.

RIBA awards have been given annually since 1966 for buildings that have high architectural standards and make a substantial contribution to the local environment.

They jury said of the building: "Even if pre-warned, the first reaction to this ink-blue building, with its apparent simplicity of form, is of a mix of some shock and pleasant surprise."

## Archive corner

This week we have some thought provoking questions to ease you back into the new working year.

- *First Prize: Bottle of Champagne or equivalent book vouchers*
- *Second Prize: Bottle of wine or equivalent book vouchers*
- *Third Prize: Box of chocolates or equivalent vouchers*

TO enter, email or post your entry listing your answers in numerical order, together with your name and contact details, to [a.barrett@imperial.ac.uk](mailto:a.barrett@imperial.ac.uk) or 455 Sherfield Building, South Kensington Campus. Closing date: Friday 20 January 2006

### New Year Quiz

1. Name two of the five annual occasions on which the Queen's Tower bells are rung.
2. Which campus has manorial antecedents?
3. In Sir George Bernard Shaw's play *The Doctor's Dilemma*, on which St Mary's staff member was the character of Sir Colenso Ridgeon based?
4. Baroness Edith Summerskill was one of the first women students associated with which medical campus?
5. Name the saints after whom the first institution founded at Wye was named.
6. Which building, now almost completely demolished, housed the exam hall with the leaky roof?
7. Which one of the following labs stood on the site of the Science Museum in the nineteenth century: Solar Physics Observatory; Electrical Engineering; Biology?
8. Name two of three College benefactors of the early twentieth century, all of whom have memorials in Prince Consort Road?
9. Which student mascot runs in the London to Brighton Race: Bo; Clem; Jez?
10. After whom are the gates at the Queen's Gate entrance to South Kensington Campus named?
11. A famous rock band is associated with Imperial through an ex-physics student. His surname is the fifth month of the year, the band's fame is mercurial and their title is regal. Name the ex-student and/or band.
12. Which garden society once owned the land on which the South Kensington Campus now stands?
13. Where on South Kensington Campus can you find depicted the state of knowledge of physics as it was in the 1960s?
14. Can you name two important sea-based engineering projects on which Imperial graduates and staff worked during World War II?
15. Which two Imperial men are associated with penicillin although several years apart; one across the park at St Mary's and one in the Department of Biochemistry?
16. Three of the South Kensington Campus buildings bear plaques naming famous scientists and engineers. Which are they?
17. In which building are the plaques found inside?
18. Which medical campus founded its own housing association?
19. How many Nobel Prize winners does the College have?
20. Which of Imperial's Nobel Prize winners invented holography?



## The future of Imperial College from a student perspective

David Kaye is a second year undergraduate student, studying physics.

"I HAVE now been around long enough to realise the high calibre of staff and students that make Imperial such a world class establishment. In order to remain cutting edge, the future must always be of concern and it is in everyone's interest for the College to continue to build on its undeniable success. As such there are certain matters that need to be addressed in order to guarantee Imperial moves forward in the right direction.

The first of these is top-up fees. Whether one is for or against them (and there are compelling arguments for both sides) they are here to stay. Therefore it must be made sure that they will not have an adverse effect on the influx of undergraduate talent to our courses. Imperial must be very proactive to appeal to some of the under-represented demographic and social groups, not because of a sense of political correctness due to Government-enforced social engineering, but because it is often individuals from these groups that have the most undiscovered potential and sheer determination to succeed at the highest level. Those from less privileged backgrounds need to be shown they can indeed thrive at Imperial and there must be an adequate grant infrastructure in place to ensure this.

As an institution at the forefront of development, Imperial needs to reflect social change and one sector I feel it is failing to address is the number of women on its courses. There are encouraging steps being taken with

various summer initiatives, but these efforts need to be redoubled as Imperial still represents the scientific community of a bygone era. There should be a higher profile female figure at the College, maybe appointed to a position with the sole purpose of being a figurehead for women's interests.

The emphasis of any expansion of departments should not just be on research, however, but on a full undergraduate body also. There are fears that the College could be turned into a research institute with a minimal number of undergraduates. It is essential for the wellbeing of the College that this does not happen, as teaching undergraduates is an important way of discovering new talent to aid in research and, more importantly, is the main reason Imperial exists in the first place!

Another source of worry is the possibility of UK students becoming outnumbered by overseas students. It is unquestionable that admitting students from all over the world is a pivotal factor in the College's success and one of the reasons it is a fascinating place to study. There is also the full-fees issue with the College needing to increase funds by recruiting more from overseas. However, it is arguable that there is a significant level of 'brain drain' occurring in this process as a large amount of these students are funded with scholarships from companies that will require them to live outside Europe and thus not contribute to the economy. If Imperial is to admit a larger proportion of these students, the positive impact of its role in teaching undergraduates will be severely weakened in the UK."



# New Head of Commercial Services

Paddy Jackman took up the position of Head of Commercial Services in November 2005. In the first interview of the new year, *Reporter's* Alex Platt went to meet him.

**Is this a new position and what does the role entail?**

"No, this isn't a new position as such, but it was formerly known as Head of Business Services. I'm responsible for residences, sports and leisure, catering and conferences, the latter two having become separate entities since I came into post. I see this as much more than an overseeing role though, it's also hugely developmental. This is reflected in the fact that I'm heavily involved in some of the biggest things happening on campus at the moment, the *Ethos* sports centre and the Southside halls of residence redevelopment. We're also involved in the redevelopment of 58 Prince's Gate, which is to become a top-notch meeting and eating facility."

**What is your background and what do you bring from this to your new role?**

"My most recent position was Commercial Director for the University of the Arts London, the federal body of the five leading art colleges in Europe, including Central St Martin's. The role was similar and included developing new student halls. It's quite a leap going from art to science! One of the best things about coming here is the availability of capital funding. It's really exciting to have the chance to develop something new. Looking further back I also have worked internationally in retail and I hope to bring some of this commercial experience to the role."

**What do you see as the biggest challenges of your job and where will you be making the biggest changes?**

"I am really keen to develop the staff and student experience. Imperial is certainly one of the top academic institutions in the UK and I want our non-academic services to also reach this high standard. We need to offer potential students what they expect from an institution like this. I also want to gain everyone's confidence and trust. I'm not just here to look at bottom line performance. I truly believe that we don't have to make a choice between great services that run at a loss or running things as a business just to make a profit. These things are not mutually exclusive, a natural balance can be obtained."

**What do you see as the biggest challenges for higher education as a whole in this area?**

"I think one of the biggest challenges is the unknown effect of top-up fees. We will either end up with students with more disposable income to spend whilst studying or students who are more aware of their spending as they are conscious of future debt. Either way, students now have expectations as cus-



Paddy Jackman

tomers, the attitude of offering sub-standard services because they're 'just students' can no longer exist. Institutions everywhere will need to raise their standards."

**What major plans do you have for the future?**

"I want to gather our team together. We are currently four independent areas and we need to recognise that these services do cross over. By grouping them together, we could offer staff and students a one-stop shop in a designated area."

# Southside update

Allyson Andrews Estates

THE Southside project achieved an important milestone at the beginning of this month when the main building contractor, Laing O'Rourke, took possession of the site on time as planned. The demolition contractor, Cantillon, successfully completed their works just after Christmas following an increase in resources to the site. At the peak of the demolition up to 60 lorries were leaving the

site each day filled with rubble.

Design of the new Southside and mews buildings is progressing well with only the ground floor areas to be finalised. The buildings are being designed to restore the form and coherence of the original Prince's Gardens by complementing the scale and form of the 1850's buildings.

The project is scheduled to be completed by the end of August 2007, in time for the beginning of the autumn term.



A view not seen since 1962

# A matter of time

BACK in October 2005, Imperial staff were challenged to suggest the contents of a time capsule to be buried beneath the new halls of residence at Southside. With competition steep, the judging panel decided to split the prize between two members of staff. Colin Grimshaw, ICT Media Services, wins for his suggestion of a commemorative DVD of

the Southside redevelopment process and Dr Nicolas Cinosi, Mechanical Engineering, for his suggestion of including of his old computer, with all its data, to reflect working life at the College in 2006.

Other relevant items will also be included. Look out for the full report when the capsule is ready to be buried.

# Higgins joins gene group

IMPERIAL'S Professor Christopher Higgins will form part of a leading advisory group on human genetics research. Professor Higgins, who is a leading figure in stem cell research and genetic causes of disease, joins six other new members of the Human Genetics Commission. Health Minister, Jane Kennedy, said: "I am delighted to announce these new appointments. The Commission remains a valued source of expertise and well-considered advice for the Government. These appointments will help it to continue to address the important issues, challenges and benefits raised by the developments in human genetics." Science Minister, Lord Sainsbury, added: "The HGC brings broader social, ethical, legal and economic considerations to one of the most exciting and fastest evolving areas of science and technological development."

# Science Museum Library resolution

...continued from page one

Following engagement with stakeholders, including existing library users and professional bodies, on the proposed way forward, the project teams at both Imperial and the Science Museum recommend that implementation of the proposal begins this month. It is likely to take around two years to complete. This process will include extensive refurbishment of the existing library at Imperial, increasing study space for students and capitalising on the latest digital and wireless technology to provide a dynamic research and learning environment. Parts of the Science Museum's Wroughton site will also be refurbished to meet its new role, as will areas of the Science Museum building to provide consultation facilities.

For full details of the agreement visit [www.imperial.ac.uk/P7162.htm](http://www.imperial.ac.uk/P7162.htm)

# MEDIA MENTIONS

Abigail Smith Communications

## Going out with a bang

The explosion at a fuel depot near Hemel Hempstead that threatens to cause environmental damage across the south east is likely to have been sparked by a failure in tanks or pipes at the site, according to Hans Michels, Chemical Engineering and Chemical Technology. "In a failure of the tank wall, an undetected crack can appear, which with the pressure of the fuel inside, can split from bottom to top in less than half a minute," he

tells *The Scotsman* (12.12.05). "The other possibility is a pipeline failure. If a valve is not closed by the computerised system, it is like leaving a bath to fill without turning the tap off."

## Is a picture worth a thousand *Science* papers?

The more artistic a person is, the more sexual partners they are likely to attract, according to UK researchers who attribute their findings to 'schizotypal' personality traits that make them more impulsive and willing to try new experiences. "The link between creativity and schizotypy has been made before," John Gruzelier, Neurosciences

and Mental Health, tells *BBC News Online* (29.11.05). "One of the things about creativity is putting together unusual associations and ideas."

## Pay as you go

New research suggests that growing numbers of men are using the services of prostitutes. The findings published by Helen Ward, Epidemiology, Public Health and Primary Care, show that the number of British men who admit to paying for sex has doubled over the last decade to nearly one in 10. Attributing this rise partly to the increasing popularity of international travel for business, pleasure or a pre-wedding blow-out, she comments in *The*

*Guardian* (02.12.05): "Looking at the media, you do get the impression that it's much more common for men on a stag weekend to get a collective blowjob or whatever."

## Survival of the single

Sticking with the peace of singledom may be the recipe for good health, according to American scientists. Arguing with your spouse for just half an hour, the team found, is stressful enough to slow down wound healing by a day. "These findings are interesting, and illustrate yet again the control that the mind has over the body," says Steve Bloom, Investigative Science, to *BBC News Online* (05.12.05).



## A day in the life of...

Dr Bill Hanage has been at Imperial for five years and is a Research Associate in Epidemiology based at St Mary's Campus. Bill joined the College from the University of Oxford. It was a return for Bill as he completed his PhD at the Royal Postgraduate Medical School, which merged with Imperial in 1997. Reporter's Alex Platt went to meet him, to find out about a typical day in his working life.

**7.30** Bill starts his day at home by spending an hour replying to his emails and completing many of the small administrative tasks that come with his position. He explained: "Getting an early start is really good, especially as I have a fair number of collaborations with people in different time zones, including Boston and Vietnam, at the moment. Starting early means I can sometimes actually get to talk to these people directly."

**10.00** Bill aims to get to work by 10.00. "I travel by tube and usually read something on the way in that has nothing whatsoever to do with science, to clear my mind for the day ahead." The first thing that Bill does upon arriving at his desk is to deal with any paperwork that he couldn't via his PC. Today involves letting key people know that a paper has been accepted by a journal. There are frequent interruptions from technicians and postdocs with various questions. Bill said: "I have an open door policy, but sometimes if I really need to work uninterrupted I stick a note on my back saying do not disturb! Only a couple of people think that doesn't apply to them, including one colleague who gets my attention by pingging my headphones!"

**10.30** Bill jumps in a taxi to get to the South Kensington Campus.

**11.00-12.00** Bill presents a lecture for biological science undergraduates. He also teaches on several courses in Natural Sciences and Medicine, at undergraduate and postgraduate level.

**12.30** Before eating lunch, Bill tries to go for a run either along the canal in Paddington or around part of Hyde Park. "It can be hard to find time to do this, but I try to make it a priority. I will always allow time for a sandwich from one of the many shops in Paddington though, as I am diabetic and can't skip lunch," he said.

**13.30** This afternoon, Bill spends time



Dr Bill Hanage

analysing data sets and running evolutionary simulations to see how bacteria populations behave under different circumstances. He said: "I tend to try and use the afternoons for bigger chunks of work. Again, the sheer diversity of things going on can be a distraction. We might find ourselves having conversations about a variety of exciting topics including HIV, bird flu, all manner of diseases and evolutionary questions. It is hard to go a day without finding something really interesting going on, which is great but not when you've got a lot to do."

**15.00** Although Bill's role has become steadily more theoretical over time, he does still occasionally don a white coat. Today he spends time in the lab setting up a sequencing reaction. He is comparing different species of bacteria. He explained: "What constitutes a species in bacteria, even after years of study, has no definitive answer. We use both actual bugs and computer-based approaches to try and come to a satisfactory conclusion."

**16.00** Bill heads back to his desk. He spends time on some correspondence with various science journals. He said: "It's challenging to push things through to publication, trying to convince people why you are right and why your work should be recognised. Also, if it is a day Arsenal are playing I start getting butterflies around now, so this helps to quell these!"

**17.00** Bill continues his current research, studying the effect of vaccination on bacteria carried by children in Massachusetts and populations of the same species of the bacteria pneumococcus, in the Gambia. He said: "This is obviously a very interesting comparison as they are such very different places."

**18.00** Bill heads home for the day, of course to watch Arsenal play, if there's a match...

## Spotlight on Spectrum

### New project management website

Peter Gillings Communications

PRINCE2 (PROjects IN CONTROLLED ENVIRONMENTs), the government's best practice approach for project management has now been adopted by Imperial. If you are planning a project then the College's new project management website has all you'll need to guide you through the PRINCE2 process. There's a step-by-step process overview with

easy-to-follow graphics, a set of mandatory templates to download, a list of contacts and help in organising training.

First developed by the Central Computer and Telecommunications Agency (CCTA) in 1989, PRINCE2 has become the UK's *de facto* standard for project management in both the public and private sectors.

Take a look at [www.imperial.ac.uk/projectmanagement](http://www.imperial.ac.uk/projectmanagement)

### New sports centre opening delayed

THE opening of Imperial's new *Ethos* sports centre has had to be postponed due to a series of unforeseen minor setbacks.

The revised goal for the opening of the gym, studio, swimming pool, sports hall, climbing wall, reception and café is Monday 30 January.

Paddy Jackman, Head of Commercial Services, said: "I recognise that this is a

considerable disappointment. However, it is essential that the facility is safe to use and properly finished, and that the *Ethos* team is fully trained to operate the various areas."

Look out for a special feature about the sports centre in the next edition of *Reporter*.

Updates and further information will be posted at [www.imperial.ac.uk/sports](http://www.imperial.ac.uk/sports)



Imperial students mingle at last month's Career Women's Forum

## It's a woman's world

NEARLY 40 female Imperial students from all disciplines had the chance to learn about the career paths of eminent female panel members at the first Career Women's Forum organised by the Careers Advisory Service last month.

Students were given a first-hand insight into how to manage their career in order to reach the top by a vice president from Goldman Sachs, a program director from IBM,

a partner from PricewaterhouseCoopers, a managing director from QinetiQ and the head of finance for Transport for London, who formed the panel.

The event, chaired by Professor Julia King, aimed to encourage current students at Imperial to believe that achieving senior positions within industry and commerce is possible for women, even where the gender balance appears to argue against it.

## What's on... What's on... What's on...

**Monday 16 January 17.30**  
Inaugural lecture *Innovation, Evidence and Adoption. Building a healthcare infrastructure for the twenty-first century*. Professor James Barlow  
Lower Ground Lecture Theatre, Tanaka Business School, South Kensington Campus  
Contact [a.eldon@imperial.ac.uk](mailto:a.eldon@imperial.ac.uk) to attend.

**Wednesday 18 January 17.30**  
Inaugural lecture *The Rich Physics of Nanowires*. Professor Adrian Sutton, FRS  
Blackett Lecture Theatre 1, Department of Physics, South Kensington Campus  
Contact [a.eldon@imperial.ac.uk](mailto:a.eldon@imperial.ac.uk) to attend.

**Tuesday 24 January 17.30**  
Inaugural lecture *Turbulence*. Professor John Christos Vassilicos  
Clare Lecture Theatre, Huxley Building, South Kensington Campus  
Contact [a.eldon@imperial.ac.uk](mailto:a.eldon@imperial.ac.uk) to attend.

**Wednesday 25 January 17.30**  
Energy Futures Lab special lecture *Powering the Planet: The Challenge for Science in the Twenty-First Century*. Professor Daniel Nocera  
G16, Sir Alexander Fleming Building, South Kensington Campus  
Contact [events@imperial.ac.uk](mailto:events@imperial.ac.uk) to attend.

**Tuesday 10 January-28 January**  
Exhibiting artists: Laura Youngson Coll and Tessa Farmer. *Where the*

*Wild Things Are*.  
Blyth Gallery, Level 5, Sheffield Building, South Kensington Campus

**Tuesday 31 January 17.00**  
Schrödinger Lecture *Quantum Entanglement: weird but useful*. Professor Sir Peter Knight, FRS  
Great Hall, Sheffield Building, South Kensington Campus  
Contact [a.eldon@imperial.ac.uk](mailto:a.eldon@imperial.ac.uk) to attend.

**Wednesday 1 February 11.30**  
Ethical Careers Fair  
Great Hall, South Kensington Campus  
Visit [www.union.imperial.ac.uk/ethicalcareers/exhibition](http://www.union.imperial.ac.uk/ethicalcareers/exhibition) for further details

## Noticeboard

### RAE website

The College's new RAE website at [www.imperial.ac.uk/rae](http://www.imperial.ac.uk/rae) provides information for staff and students about RAE requirements, together with guidance and frequently asked questions. It also provides a link to the data contained in the RAE Repository, the database developed to capture our RAE data. The mechanism to view, check and populate staff data, was released to designated users in faculties and their constituent departments/divisions on 19 December 2005.

Further information about RAE 2008 is available from Michelle Coupland, ([m.coupland@imperial.ac.uk](mailto:m.coupland@imperial.ac.uk)), Josie Lewis-Gibbs, ([josie.lewis-gibbs@imperial.ac.uk](mailto:josie.lewis-gibbs@imperial.ac.uk)) or [rae@imperial.ac.uk](mailto:rae@imperial.ac.uk).

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