

# IC Reporter

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STAFF NEWSPAPER OF IMPERIAL COLLEGE OF SCIENCE, TECHNOLOGY AND MEDICINE



Neville Miles, College Photographer

## Environment Day at IC

The first Environment Day at the College was held on 14 June.

Environment Day was the official launch of the Graduate School of the Environment, set up in November 1994, as the main recommendation of a review of environmental activity at the College, chaired by Sir John Mason, FRS.

The role of the Graduate School is to promote and coordinate the wide-ranging environmental research being carried out across all disciplines at the College.

In his introduction to the talks given by prominent environmental scientists the Rector paid tribute to the foresight of Lord Flowers, who set up the Centre for Environmental Technology (ICCET) in 1977. "The Centre

now runs what is arguably the best MSc in environmental technology in the UK," said the Rector.

The presentations made during the Day reflected the depth and breadth of environmental research at Imperial.

Among the speakers were Professor John Lawton, Centre for Population Biology, who spoke on biodiversity and climate change, Prof Roger Perry, Centre for Environmental Control and Waste Management, who outlined aspects of research into waste management and Dr Sharon Hotchkiss, St Mary's, who described her work on the skin absorption of chemicals.

The Rector summed up the approach to environmental science at Imperial: "Those of us who are genuinely concerned about this issue do have an important respon-

sibility not to oversell and to deliver sober and considered judgements, rather than to regard this as something of a gravy train, to which all sorts of other programmes can be hitched."

More than 150 guests had the opportunity to view a new exhibition illustrating the main thrusts of environmental activity at the College.

A brochure and contact sheet have also been produced and both are available from the GSE Office in the Bessemer building.

Professor John Woods, Dean of the Graduate School of the Environment, pictured above, left, with Dr Roger Wiley of the Meteorological Office.

## Seminar on health and environment held at ICCET

A one-day Symposium on Environment and Health, organised by Professor Iain Thornton for the Centre of Environmental Technology (ICCET), was held at Imperial on Wednesday 7 June.

More than 100 delegates attended from a wide cross section of interests - including research councils, government and industry. "The aim of the meeting was to bring together the main researchers on health and the environment at Imperial and neighbouring institutions, in order to explore links and identify future training and research needs," said Professor John Beddington, Head of ICCET.

Talks at the Symposium ranged from the assessment of exposure to air pollution, to the toxic effect of precious metals.

Dr Kate Venables of the National Heart and Lung Institute, in a lecture on asthma epidemics, told the meeting how thunderstorms can put asthma sufferers at risk of serious attacks. A service should be set up to warn asthma sufferers when weather conditions could trigger attacks, she said, so they can remain indoors with inhalers at hand.

Professor Julian Peto from the Institute of Cancer Research in Surrey warned that asbestos-related deaths would triple in the next 25 years. In the past, he said, research had focused on workers in the asbestos industry. Now scientists are beginning wider research on builders who have been using asbestos in an uncontrolled way.

In the final session of the day, participants from NERC, the Medical Research Council, the Department of the Environment, the Department of Health, Imperial College and Glaxo-Wellcome gave their thoughts on future priorities.

A briefing document of research activities in Environment and Health has been compiled by the Centre directly from submissions sent in by those attending the Symposium. It is planned that a final version with additional entries will be produced and sent to interested parties. Anyone who would like to be on the mailing list or who wishes to put in a submission should contact Diana Paterson-Fox, ICCET Administrator.

## Double medal win for MRE

Staff in the Department of Mineral Resources Engineering have achieved a unique double by being awarded the John Phillips Medal in 1994 and 1995, by the Mineral Industry Research Organisation (MIRO).

The medal is awarded for innovation and application of technology which in the opinion of MIRO most reflects the spirit, imagination and determination of the late Dr John Phillips, in

research and development for the benefit of the mineral industry.

The 1994 medal was awarded to Dr Bill Dudeney for his work as part of an international team developing clean technology for the removal of iron from industrial minerals. The 1995 medal has been awarded jointly to Dr John Monhemius and Peter Swash for their research on stable arsenical compounds for the safe disposal of arsenic in the environment.

## AWISE launch

The inaugural meeting of the South Kensington branch of the Association for Women in Science and Engineering will be held at the Science Museum.

Talks will be given on Wednesday 19 July (16.00-19.00 hours) by Anne Barrett, Imperial College Archivist on 'Huxley and his attitude to women'; and by Wendy Sheridan, Science Museum Pictorial Curator. The charge of £2 to both members and non-members includes tea, served in the Fellows' Room, as well as entrance to the exhibition. Details and tickets from Margie Bell (e-mail m.l.bell).

## IN BRIEF

### TV challenge

A team representing Imperial College has been selected to take part in the new series of *University Challenge*, the popular TV student quiz. The members of the team are: captain Mark Pallen, PhD in biochemistry; Nicholas Bradshaw, PhD in neural systems; Eu-Jin Ang; Jim Totty, PhD in mathematics/physics; and reserve Chris Harrison, MSc in Foundations Information Technology. The first round matches will be recorded during the summer and the series will be screened in the autumn of this year.

### Kendo medal

Meriel Spalding, who works in the Chemical Engineering departmental library, won the bronze medal for the British Kendo (Japanese swordfighting) team, at the 1995 European Championships.

### President of statistics

Professor Adrian Smith, Head of the Department of Mathematics, has been elected President of the Royal Statistical Society for a period of two years, from 14 June.

### Norburn elected to board

Professor David Norburn, Director of the Management School, has been elected to the Board of Companions of the British Institute of Management.

### Treecycler success

The new wastepaper recycling scheme is now in operation in the Sheffield Building (IC Reporter issue 2). Called the Treecycler, the system collects all wastepaper, including computer paper, newsprint, envelopes and junk mail. The results are satisfactory, with 80-90 sacks of rubbish recycled each week. There are plans to expand the service to other areas of the College later in the year.

### City and Guilds fellowship

Professor Igor Aleksander, Head of the Department of Electrical and Electronic Engineering, has been awarded a fellowship of the City and Guilds of London Institute.

## Media mentions

### Imaginary smells

A study by doctors at St Mary's Hospital Medical School on offensive body smells has shown that in the vast majority of cases, the symptoms are imagined. Professor Robert Smith, commented in an article in *The Daily Telegraph* (23 May): 'In most cases the malodour is obvious to the sufferer, but is not experienced by family, friends or colleagues.' An exception to this is fish-odour syndrome, a rare inherited disorder caused by an inability to metabolise trimethylamine, a substance present in eggs, liver, offal and salt-water fish. The research was initially reported in the 20 May edition of *The Lancet*.

### Why trains are better

Sir Hugh Ford, Emeritus Professor in the Department of Civil Engineering, was mentioned in a *Times Higher Education Supplement* article (19 May) about the environmental benefits of railways over other modes of transport. At a Royal Society conference, 'The Railways, Challenges to Science and Technology', Sir Hugh and Rod Smith, chairman of the Advanced Railway Research Centre at Sheffield University, said that an electric train uses less than a tenth of the energy of a car in local traffic.

### Enormous possibilities for aircraft

IC-Parc, a joint research centre for industrial applications, is involved in a venture with British Airways to develop a methodology for scheduling the movements of aircraft from Heathrow Airport, reported the *New Scientist* (20 May). The airline's problem is the enormous number of possibilities created by different combinations of possible aircraft and flight time, and a solution is beyond the scope of conventional programming. The team at IC-Parc use an approach based on constraint logic programming to optimise the flight combinations.

### Fishing limits

Professor John Beddington, Director of the Centre for Environmental Technology, will deliver the Imperial College lecture at this year's British Association Festival of Science. 'Fishing limits - the limits to fishing, and other harvesting' will cover the global issues of harvesting and sustainability. This year's Festival will be held at the University of Newcastle, from 11-15 September. Professor Beddington's lecture is scheduled for Wednesday 13 September at 17.00 hours. If you would like a free invitation, contact the Press Office.

### Media Guide 1995-96

The Press Office is currently preparing the 1995-96 edition of the *Media Guide*. The Guide, which lists over 400 experts on a wide range of subjects, is circulated to 2,000 journalists in the UK and worldwide. If you are an academic and have not yet received a form for inclusion in the Guide, please contact the Press Office on 46704.

## STAFF PROFILE

# Management School professor to head University of Cambridge business school

**Professor Sandra Dawson, Management School, will be leaving Imperial, and becomes director of the Judge Institute of Management Studies, Cambridge University, on 1 October. Sandra has worked at Imperial for over twenty-five years, holding the post of Professor of Organisational Behaviour since 1990.**

Sandra will be the first woman to head a business school at one of the traditional universities - a fact that has not escaped the notice of the media. Stories have appeared in *The Times*, *The Financial Times* and *The Daily Telegraph*, as well as local and trade press.

"I've been enormously proud and happy to have worked at Imperial," said Sandra. "All other things being equal, I would have expected to complete my career here. It's just that the wonderful opportunity arose of going to Cambridge, to be director of the Judge Institute. It is an opportunity which is immensely exciting and could not be missed.

"Of course I'm sad to be leaving colleagues, and a lot of extremely good work," she continued. "But I think that the work will continue, and relationships with colleagues, and friends that I've made over the years will stand the test of time."

Among her accomplishments at Imperial, Sandra lists her attempts to relate the work of the Management School to other departments. "In the eighties I worked with people in Chemical



Engineering and also in construction on matters of occupational health and safety. It was very important to have an integrated approach with management input

and engineering input," she said.

Sandra has collaborated in a similar way with the Medical School. "I provided expertise in such areas as management develop-

ment for doctors, the impact of changes in the Health Service on health service management, and the role of doctors and nurses in the Health Service." In the last three years, she has had the opportunity to practise what she preaches, as chairman of the Riverside Mental Health NHS Trust, a complex organisation with an income of £52 million last year.

In addition to her academic work, Sandra has also held managerial and administrative positions at IC. From 1986 to 1990, she was College Tutor, with particular responsibility for women's issues. From 1990 to 1994, she chaired the Imperial College Health and Safety Council.

Sandra has also been closely involved with the Day Nursery. "I've had three children whilst I've been here. The nursery was extraordinarily important to me in enabling me to continue with my professional life," she said. During the early eighties she was the parent representative on the Day Nursery Steering Committee, and then chairman from 1984 until 1990.

In addition to her new post, Sandra has also been appointed Peat Marwick Professor of Management Studies. The Judge Institute, which has about 35 teachers and researchers, was established in 1990. It runs an MBA course, an MPhil programme for management research, and undergraduate courses, and has a very active research programme.

## The view from the tower

by Don

**S**cene: a June day in the Travel Office. In a very long queue, two inhabitants of the same department meet.

"Aha, Dr Simpkins. What will it be this year? A keynote in Khartoum or a plenary in Pasadena, what?"

"To tell you the truth Professor Lexington, I regret it's only a poster in Portsmouth. At the Symposium for Interactive Capillary Kinetics, Port-SICK95, to be precise. My bus tickets need collecting."

"A poster in the UK? That's a bit non-international, anti-Research-Assessment, would you not say?"

"Well, the trouble is, I've had virtually no time to do any research this year. Mind you, I'm not complaining - loved the 120 hours of lectures and supervising 11 projects. But, what with the wife having a baby and having to move house, my research took a bit of a dive. Actually I did respond to the invitation to do a plenary in Perth, but they sent the paper back. Said that it's what I said in Paris last year, despite the fact that I put

'Perspective from One Year On' in the title."

"Hmm - can't say I'm very happy with this state of affairs. Perhaps we should start a series of discussions on the subject of early retirement."

"What an interesting idea! Would the fact that I'm only 35 not get in the way? Would it also not be an embarrassment that I was appointed to a Governors' Lectureship less than a year ago?"

"Oh so you were - doesn't time fly? Best to leave it till next term. I've got my airline tickets to collect now."

"Going anywhere nice Professor Lexington?"

"Actually I turned down the invitation to open the world congress in Washington. Am going to Perpignan instead - an amusing poster, but convenient for the house in France you know. Do come and visit, we'll be there for the next six weeks or so ...."

(Apologies to Laurie Taylor)

## RESEARCH IN PROGRESS

# Is there an answer to London's traffic problems?

**A** team of researchers in the Department of Civil Engineering hope they have found a solution.

Led by Dr Gabriel Khoury (pictured below), they are devising a plan to relocate a significant amount of long-distance traffic underground, freeing surface roads for the benefit of pedestrians, cyclists, bus services, taxis and local traffic. The relocated traffic will flow in an underground network designed for cars and light vehicles only. Underground parking facilities would be provided on bus routes, close to rail and tube stations.

Dr Khoury's objective is "to strengthen London's status by significantly improving transport mobility and accessibility for business in a socially and environmentally friendly manner". The network will be constructed in stages. A possible first section of the London Expressways scheme, published in the *Evening Standard*, is to build a tunnel underneath London running west to east. The 12-mile dual carriageway would stretch from the M4 at its junction with the North Circular to the A102(M) by the Blackwell Tunnel.

Dr Khoury points out that the plan is still in the development stage and is unwilling to talk in

great detail about the scheme until feasibility studies have been carried out. With the backing of eight leading UK companies, he is raising £600,000 to fund the necessary research.

He does not believe that the tunnel would increase the number of vehicles travelling in the region. He commented, "Relocating traffic underground will allow local authorities to introduce measures to discourage long-distance traffic from using London's surface roads". In co-operation with Westminster Council the research team is considering ways of improving public transport and cycle routes; and creating pedestrianised areas.



## MEDICAL MATTERS

## Medical research: copper and gold

by Professor Peter Richards

St Mary's has taken a bit of a beating over its 1993 research ratings. Several external observers thought the ratings ungenerous but that is history. There certainly is, however, a remarkable gap between the rating and research income.

Nationally, St Mary's has one of the highest research incomes per member of academic staff of any UK medical school. Within the College its research income has increased from £6.8 million in 1990 to £13.4 million in 1994 (97 per cent) while the rest of the College has increased from £35.4 million to £45.2 million (29 per cent) over the same period. Questions need to be asked about the wisdom and fairness, now or in the future, of a resource allocation formula within the College too dominated by research ratings without taking account of differences between and even within subjects.

Most medical schools with a primarily undergraduate educational role nationwide did not get high ratings in 1993. The winners were those with a strong multi-faculty base (such as Cambridge and UCL) or with a major research institute (such as the Institute of Molecular Medicine at Oxford). Only UCL got a better rating in the North Thames Region than IC/St Mary's.

In general, the postgraduate institutions did better but nobody has drawn attention to the fact that their hospitals are underpinned by a much stronger level of NHS support for research than a hospital like St Mary's or Charing Cross.

NHS support for the research infrastructure of 'undergraduate' teaching hospitals is taken by ministerial edict to be 25 per cent of the Service Increment for Teach-

ing and Research (SIFTR). SIFTR is a substantial sum (approximately £40,000 per clinical student per annum) allocated to university hospitals by the regional health authorities to compensate for the increased service costs associated with undergraduate teaching and with research. In that student numbers are related to staff numbers, which are related to research activity, there is rough logic in this. In future, following the recommendations of the Culyer Report, the research 25 per cent will be explicitly targeted on demonstrated need for infrastructure and on research activity. St Mary's Hospital stands to gain.

The 'postgraduate' teaching hospitals receive central Department of Health support for research, originally across the board on a historical basis and very recently in relation to a special research rating system introduced in the Thompson Review, taking into account both 'quality' and 'value to the NHS'. In relation to research income this direct NHS support for research is much more generous in 'postgraduate' than 'undergraduate' institutions.

The London 'postgraduate' academic institutes or schools received RAE ratings in 1993 ranging from 2-5. Their overall research income was less than that of the North London 'undergraduate' schools alone (with similar Research Council income) yet their hospitals received seven times the NHS support for research. Even allowing for arguments about comparing like with like this is a substantial difference.

There are those in the College who do not realise that the 'undergraduate' schools also take postgraduate students (over and above junior doctors in training). In London University as a whole the

'undergraduate' schools in 1992-93 had almost as many registered postgraduate students (1,049) as the 'postgraduate' schools (1,185), including more PhD students.

Accommodation may also need to be taken into account. St Mary's, for example, has less academic accommodation in relation to student numbers than any other UK medical school and about half as much accommodation as any other in relation to research grant income.

All the incoming members of the new School of Medicine will have a problem with the current College formula vote which discounts research income from charities. Research charities such as the Wellcome Trust, as rigorous in peer review as the MRC, are the major source of income of medical schools. They do, as Dame June Lloyd wrote in the THES recently, 'pay for the direct costs of the research but will not contribute to infrastructure or overhead costs which they see to be the responsibility of the universities'.

Medicine is already far more complex than 'just another department' and will become more so. To get the best out of IC medicine a case can be made for investment rather than formula calculated cuts. The anticipated new basic medical sciences building is a firm step in the right direction. Meanwhile the revolution in R&D funding in the NHS will gradually level the NHS research infrastructure playing field. The new School of Medicine will stand both to gain and to lose from this but some interesting new perceptions may emerge as to what's copper and what's gold.

Professor Peter Richards is the Dean of St Mary's Hospital Medical School

## NHLI joins Imperial

by Professor Tim Clark

The origins of the National Heart and Lung Institute arose about 150 years ago when two hospitals, the National Heart Hospital and Brompton Hospital, were opened to meet the particular needs of patients with heart disease and tuberculosis respectively.

Each hospital set up its own medical school and, over the passage of time, both hospitals were merged as were their medical schools. Thus the Institutes for Cardiology and Diseases of the Chest came together to form the Cardiothoracic Institute. In 1988 this was renamed the National Heart and Lung Institute (NHLI).

NHLI brings together powerful traditions in teaching and research in both heart and lung disease. It remains interdependent with the hospital, now Royal Brompton Hospital NHS Trust, sharing with it a common mission and a site which is a mere 15-minute walk from the South Kensington campus of Imperial College.

NHLI through its progenitors has been a part of the University of London since the NHS came into existence. It is currently one of the federated institutes of the British Postgraduate Medical Federation, but changes to the organisation of London medicine, initiated by the Tomlinson Report, have led to the transfer of the BPFM Institutes into the multi-faculty colleges of the University.

At an early stage NHLI saw the exciting opportunity these changes offered and indicated its wish to join Imperial College. The advantages that were perceived at the time have become more apparent the closer we move to full union. Medicine is advancing rapidly in the direction of cellular and molecular biology whilst the genetic basis for medicine becomes ever

more important. These developments need the participation of 'big science' and we and Royal Brompton welcome the opportunity that joining Imperial will present for the generation of new knowledge and development of improved heart and lung treatments.

There will be advantages for the College as well. NHLI has a strong research record, scoring well in the last Research Assessment Exercise. Close to South Kensington in newly refurbished laboratories and alongside the superb facilities of Royal Brompton, the NHLI and its sister hospital are a powerful asset to IC in its ambition to become a world class player in biomedical research and delivery of health care. Like the College, NHLI with Royal Brompton is a specialist centre requiring above average resourcing and, as for the College, this has been recognised in the level of Department of Health and HEFCE funding. We are confident that we will retain this support both by virtue of our current expertise and reputation but also because of our entry into Imperial College.

It is therefore with great enthusiasm that we will be joining the College on 1 August 1995. This enthusiasm is amplified by the further opportunities that will arise when the Royal Postgraduate Medical School and Charing Cross and Westminster Medical School also join. The combination of St Mary's and NHLI already provides a powerful Medical School but the addition of two other major institutions in West London should enable the College to develop a rival to the very best in the world. If, as hoped, the Institute of Cancer Research also becomes a

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## BOOK REVIEW

## The quest for quality

Review by Professor Alan Swanson

*The Quest For Quality: Sixteen Forms Of Heresy In Higher Education*

Sinclair Goodlad 1995

SRHE and Open University Press  
£37.50 hbk £13.99 pbk

Sinclair Goodlad is known to many in the College for his leadership of the various forms of guidance offered to academic staff to help them in the educational part of their work; there are now several generations of lecturers who in their early years attended one or more of his workshops. For much of his time here he has contributed to the national literature on higher education, and this book is his latest contribution.

The word 'heresy' in the sub-title is a deliberate overstatement by the author, who is well aware of the

historic meaning of the word and has used it to emphasise various imbalances in order to make people think.

In this book, 'heresy' represents too large a displacement from the origin of a pair of rectangular axes, one running from society to the individual and the other from theory to practice. In respect of, in turn, the curriculum, teaching methods, research and college organisation, a position near the origin represents a balance which is desirable from the point of view of one who holds, as the author does, that the nourishment of persons should be a primary concern of people engaged in higher education.

Sixteen excursions from the origin have been selected from the

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## New IC teaching space catalogue

**D**o you need a room for lectures or a seminar? Do you know which rooms might be suitable? Do you know whom to ask?

As part of the College drive to make efficient use of its space resources, the departments on the South Kensington site have been collaborating to produce a catalogue of teaching space. This includes 185 rooms, each with a contact name, ranging from the Great Hall to a seminar room with nine seats.

We all know that the distribution of teaching space between departments is far from fair, for all sorts of explainable historical reasons. But those departments short of space have until now had to rely on a combination of local knowledge and goodwill to 'borrow' space from other departments, even though in theory all space is a College resource. The

spur to improve on this situation came with the need to demolish the RCS II building in preparation for the construction next year of the new basic medical sciences building. A manual pilot scheme, including information about room bookings, was developed by Peter Clout (many years ago a senior lecturer, now returned as a part-time consultant to the College) which enabled the departments affected to locate and negotiate suitable alternatives for the 1995-96 session.

The new catalogue, which has just been issued by Val Straw, the Facilities Manager in Estates Division, is only a temporary measure, since it does not yet include the room booking information which would make it much more effective. To tackle this aspect, a multi-departmental working party has set up teams led by Alan Vosper (Aeronautics) and Ann Macconnachie (Chemical

Engineering) to choose an automated timetabling system which will not only make the annual departmental chore of timetable preparation much easier, but also produce automatically as a by-product the room booking data needed for the central catalogue. Several departments have experience of such systems which is being used as a starting point, and the cost of the necessary software will be borne centrally by the College. The intention is to have the automatic system available for use in departments by May 1996, so that more effective use of teaching space should become a comparatively painless reality for the session 1996-97.

If you would like to know more about what is going on, feel free to contact any of those named above. If you would like a copy of the catalogue, please apply to Val Straw, extension 49001.

## D I A R Y

## June

## COLLEGE EVENTS

## Thursday 22 June

## College open day

All departments will be open for fifth and sixth form students. Further information from the Schools Liaison Office, extension 58042/3.

## Saturday 24 June

## St Mary's students' Summer Ball

To be held at the Park Lane Hotel, Piccadilly. Further information from Robert Hughes, telephone 0171-725 5196.

## 26 June - 7 July

## WISE courses

A series of two-day residential courses in science and engineering for lower sixth girls. Further information from the Schools Liaison Office, extension 58042/3.

## Wednesday 28 June

## 'Information Technology support for Education and Research'

This programme of short briefings, most of which will be illustrated in action, is offered to staff who wish to learn more about the recent impact of information technology on teaching and research. Speakers: Henry Rzepa, Stephen Boyd-Davis (Middlesex University), Peter Murrey-Rust (Glaxo) Ed James, Dan Moore. Programme will end with a question and answer session. Tea provided. To be held in the Clore Lecture Theatre from 14.30-17.30 hours.

## EXHIBITION

## Until 3 September

*T.H. Huxley Esquire, scientist, artist and educator*

Organised by the College Archives. Science Museum Picture Gallery.

## MUSIC EVENTS

## Thursday 22 June

## Performers Platform

Edward Bale (violin) and Philippa Bale (piano) performing Beethoven, Sonata in A minor; Debussy, Sonata in G minor; Kreisler, Tambourin Chinois; Brahms, Sonatensatz. To be held in the Read Theatre at 12.45 hours.

## TRAINING PROGRAMME COURSES

## Wednesday 28 June

## Course for academic and research staff

'Facing the media - TV and radio'. No charge. For further information ring extension 45521/0.

## Thursday 29 June

## Course for academic and research staff

'Facing the media - the telephone interview'. No charge. For further information ring extension 45521/0.

## July

## COLLEGE EVENTS

## Saturday 1 July

## Street party and Hospital open day

To be held in Norfolk Place at 12.30-15.30 hours. Further information from the Project

Manager 0171-725 1330.

## Friends of Imperial College, day visit to Silwood Park

Call Penny Berkut for information, extension 48740.

## 7 - 9 July

## UK Alumni Weekend

The College welcomes former students to a day of lectures and demonstrations, with reunion dinner and dancing in Beit Quad. The Departments of Chemistry, Computing and Materials will be featured this year.

## Thursday 13 July

## Annual research staff barbecue

Queen's Lawn, 18.30 hours. Call HUB office for information, extension 48740/1.

## EXTERNAL EVENTS

## Tuesday 11 July

## Poetry reading

'Unstable regions - notions of real and imagined worlds of poetry and science'. Miroslav Holub and Roy Porter. To be held in the Flight Gallery, the Science Museum at 19.00 hours. Tickets £5 (£3 concessionary price for IC staff) from Stephen Foulger, the Science Museum, Exhibition Road, London SW7 2DD. Send a cheque made out to the Science Museum, together with your name and address.

## TRAINING PROGRAMME COURSES

## Tuesday 4 July

## Course for academic and research staff

'Career development workshop for women academics'. No

charge. For further information ring extension 45521/0.

## 5, 12, 19 July

## Courses for academic and research staff

'Optimise and survive the working day'. No charge. For further information ring extension 45521/0.

## Thursday 6 July

## Course to develop personal effectiveness and management skills

'Introduction to Imperial College'. Morning course. No charge. For further information ring extension 45521/0.

## Friday 7 July

## Course to develop personal effectiveness and management skills

'Preparing for retirement'. No charge. For further information ring extension 45521/0.

## September

## COLLEGE EVENTS

## Thursday 28 September

## Networking reception

'Sustaining development - an environmental biologist's perspective'. Professor John Lawton, Director of the NERC Centre for Population Biology. To be held in the Clore Lecture Theatre (Huxley 213) at 18.30 hours. Tickets (£9.00 to IC staff, including buffet) and further information from room 301, Sheffield Building, extension 46134.

## Harkness Fellowships

Applications for Fellowships for 1996 are invited from men and women with wide and substantial experience in their own professional fields, to enable them and their families to spend up to one year in the USA. Applicants must be British citizens.

For application forms and further details of emoluments and programme content, send a stamped (36p), addressed envelope measuring 10x7 inches to the Harkness Fellowships, 28 Bedford Square, London WC1B 3EG.

Applications forms must be submitted by 16.00 hours, 18 October 1995. Forms will not be available by post after 12 October.

Short listed candidates will be interviewed in London in January 1996. Fellows begin their tenure in August 1996.

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## Book review

larger number that are possible, each representing too much emphasis on one combination of factors at the expense of others. For example, virtually all courses in the College aim, amongst other things, to equip their students with skills relevant to employment; but over-emphasis on this aim in curriculum design can lead to a neglect of theoretical understanding and of the social dimension of which both theory and practice should take account. Curriculum design has then moved too far along the 'individual' and 'practical' axes, and the displaced position is labelled as one of sixteen heresies.

This is a thought-provoking book, and the more people allow their thinking to be provoked by it, the more we shall be thinking about quality from first principles, which must be a good thing.

Professor Alan Swanson is the Pro Rector (Educational Quality)

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## NHLI

part of the new School then the Imperial College School of Medicine will be a formidable force in biomedical research, development and education.

NHLI and Royal Brompton look forward with anticipation to playing a significant role in making Imperial College School of Medicine the success it undoubtedly will be.

Professor Tim Clark is the Dean of the NHLI and the Pro Rector (Medicine) at IC from 1 August

## IC Press

Imperial College Press is located in room 516 Sheffield Building. For further details about ICP contact the staff editors Tony Moore or Dr Richard Lim on extension 49568. Fax 0171-591 0876. E-mail edit@icpress.demon.co.uk

## NOTICE BOARD

## New campus map

The revised campus map is currently being reprinted and will be available for staff to order copies from Friday 23 June. If you wish to request copies, please telephone Bulk Stores on extension 58669.

## Rector's award for excellence 1995

The award for excellence is given to clerical, manual, technical or academic related staff in recognition of outstanding work. Up to £1,750 is available in prize money. To enter contact Christine Wright, extension 49422. Closing date Friday 28 July.

## UROP matters

It is essential that the UROP Office is notified of students undertaking Undergraduate Research Opportunities work in departments during the summer. In particular, it is essential that any student from overseas should show to the UROP secretary a valid certificate of health insurance before being allowed into a laboratory. Bursaries can be paid through the UROP Office. Interdepartmental transfer journals to the UROP Office, room 313C, Mech Eng, extension 48753.

## Changes to EPSRC research grants

If your research is sponsored by EPSRC a final expenditure statement and a final report on the research work must be sent to EPSRC within three months of the termination of the research grant. If there are exceptional reasons which will prevent either document being submitted within three months, a request for an extension may be sent in writing to the EPSRC. Otherwise the Council may impose certain penalties, which include recovering 20 per cent of the value of the grant. For full details of the new grant conditions contact the head of your department.

## Do you have asthma?

Researchers at the National Heart and Lung Institute, headed by Professor Peter Barnes, are seeking volunteers for studies to elucidate the mechanisms of inflammation in asthma. All studies are approved by the hospital ethics committee and are carried out by experienced medical practitioners. Expenses will be paid for time and trouble incurred by the studies. If you are prepared to help, please contact Dr Sam Lim at the Asthma Laboratory on 0171-351 8051.

## IC Reporter

The newspaper will be published monthly during the summer. The publication dates are:

Tuesday 11 July,  
Tuesday 22 August and  
Tuesday 12 September.  
Contributions for the next issue should be received by Friday 30 June. These can be sent to Victoria Browning via e-mail (v.browning) or internal post (Rm 546B, Sheffield Building). Extension 46697. Fax 46700.

The first issue of the autumn term will be published on Tuesday 3 October.

Please note the editor reserves the right to cut or amend the articles as necessary.

Information correct at time of going to press.