HRH The Duke of Kent Visits Research Centre

The Sussex Centre for Neuroscience was officially inaugurated last week by HRH The Duke of Kent. Michael Kenward talks to its Director about the work of the Centre.

The human brain is a complex "machine" that performs amazing feats. It isn't, though, particularly special at the fundamental level. Look at the chemical processes that go on inside the cells of the brain, says Professor Michael O'Shea, "and we find they do not differ significantly between a man and a worm."

Michael O'Shea is the director of the Sussex Centre for Neuroscience. The centre, officially inaugurated last week, is one of the prestigious Interdisciplinary Research Centres (IRCs) set up by the SERC to focus on key areas of research. Among other scientific disciplines, the neuroscience IRC brings together the techniques of neurobiology, the study of the biology of the brain, and the chemical sciences. The researchers also use computers to analyse human behaviour.

The complexity of the brain makes it essential to employ different scientific disciplines. You can study the brain as an "armchair philosopher", says O'Shea, or you can look at it as a set of molecules. While both will tell you something about how the brain works, they cannot provide a complete picture. "By studying the nervous systems of organisms more simple than man, we gain insights into the basic molecular and cellular requirements for a functioning nervous system of any type," says O'Shea. "We are trying to understand the nuts and bolts of how the brain works.

"We have got a long way on understanding the interactions that occur between cells in the brain," O'Shea explains. But that is only the beginning. Neuroscientists also have to study how brain cells work together. With the human brain containing billions of cells, the task is extremely complex. "A few thousand cells is a hard enough problem," says O'Shea.

One focus of the work of the IRC is research into vision. Here the researchers start with work on eye movement in crustaceans. This work has reached a stage where a computer can analyse what is going on inside the brain. Professor Michael Land at the IRC has adapted this computer model to study how the human eye works, and how the brain drives the direction our eyes look in.

Work on how nerve cells interact in simpler organisms has recently taken the IRC into a new direction. Even simple invertebrates like snails manage to find their way around. "They don't get lost or bump into things," says O'Shea. The same cannot be said of robots. "We are now developing links with researchers from the cognitive sciences and from artificial intelligence to try to make robots behave in a more intelligent way."

The IRC has also established close links with companies that make pharmaceuticals and agricultural chemicals. Drug makers are obviously interested in developing new treatments for neurological disorders.

Agrochemicals companies are interested in the IRC's growing body of knowledge on the nervous system of invertebrates, organisms that are often agricultural pests.

Many pesticides interfere with the nervous system of the pests they are designed to attack. Unfortunately, many of today's chemicals are very broad in their attack. They also attack vertebrate species. "We are in a position to study the subtle differences between invertebrate pest species," says O'Shea. It might then be possible to develop chemicals that attack only the intended targets.

Now beginning its third year of work, the IRC has already started to produce research results, with more than 50 papers published in the past year. O'Shea is enthusiastic about the IRC as a way of supporting research. For example, it lifts some of the teaching load from its staff, giving them more time for research. And the funding mechanism means that he can encourage teams to work closely together with colleagues who are studying completely different aspects of neuroscience.

The IRC recently went through its first review with the Science and Engineering Research Council, which provides most of its funds. O'Shea is optimistic about the outcome, which should guarantee the centre's budget for the next four years.

He has spent much of the past two years setting up the IRC and its research programme. This may change as the IRC moves into top gear. If all goes well, the new programme will include funding for an administrator, freeing O'Shea to return to his own research on chemical signals in the brain.
Vacancies
The following posts within the University are vacant. Further particulars may be obtained from Peronnell Office, Room 227, Sussex House.

Teaching Faculty
Chair in English, closes 29.10.93.
Lectureship/Senior Lectureship in History of Art, Grade A, B or Senior Lecturer, closes 11.11.93.
Lectureship in Mathematics, closes 15.10.93.

Admin Faculty
Publications Officer, Grade 2, closes 15.10.93.
Clerical & Related
Secretary in COGS, Grade 4, closes 21.10.93.

***
Assistant/Associate Professor at Hiroshima University: Three year post in Modern Drama, or Film Studies and/or Popular Culture. MA is required and PhD is expected. Contact Kathy Morton, East Asian Relations Officer, Sussex House.

Language Centre
The Language Centre has extended its opening hours and is now open at the following times:
Mon to Thurs: 9 am to 8 pm
Friday: 9 am to 5 pm
Saturday: 10 am to 4 pm
It is hoped that users will find the new opening times make it possible for them to study autonomously in a more effective way. Helpful staff are available to give advice to learners wanting to study a foreign language on their own, and browsers are welcome. All the Centre's facilities - language laboratories, tapes, cassettes, videos, satellite television, magazines and journals - are freely available to the University's students and staff.

VINTAGE YEARS
An extract from the Bulletin, October 1975:
Twelve cars were immobilised by wheel clamps in the first week of the University's new policy on car parking. Under the new policy, cars parked on double yellow lines are immobilised, and vehicles causing a serious blockage or safety hazard, whether parked on double yellow lines or not, are towed away.

A claim that, on occasion, all the car parks have been full has been refuted by the Bursar's Office, which claims that there has been ample space in the Science Car Park every day since the beginning of term.

News
WHO SHOULD PAY?

At the recent meeting of Britain's university Vice-Chancellors, the Education Secretary, John Patten, asked the conference to indicate whether students should pay, or tax payers be asked to fund greater numbers going to university. Printed below is an extract from a radio interview with Professor Conway, broadcast from the conference at Leicester, immediately following John Patten's speech.

Professor Conway, the question of funding for student places appears to be the thrust of Mr Patten's speech, is that how you read it?

It was a major part of it. I should say first of all that there was much to be welcomed in what he said. I was particularly pleased that he praised the universities for their great increases in efficiency over the last few years. He actually said that our record of efficiency gains was greater than any other public body except the Inland Revenue. Secondly he also stressed the growing linkages between higher education - the universities - and the further education colleges. Again I was pleased because it fits in with the plans we have in East and West Sussex for a much closer relationship between the colleges of further education and the two universities, the University of Sussex and the University of Brighton.

So it is clear in some ways that he must have got a favourable reception from the Vice-Chancellors. But what about this question of funding, what was the reaction to an appeal for suggestions of how to fund this expansion of university places?

The first thing the Vice-Chancellors said was that the quality of education is being threatened, that the amount of money being spent per student is declining. Although we are just about holding our head up and maintaining our quality standards, they will be threatened in the future unless there is more money available per student. Some Vice-Chancellors said that we needed another one, two, three thousand pounds per student to maintain international quality standards in the universities. So we threw that back at him as a challenge.

Any suggestions as to how we take up that challenge - as we know spending by the government is under very, very tight scrutiny.

One proposal is that students should in some way contribute to their own education. The scheme that looks to be the most equitable and favourable is the one in which students would pay back a loan contingent on their income over a number of years. We would favour that scheme in terms of equity and in terms of providing a greater expansion of education and providing more access to disadvantaged students, but we are very worried that if that scheme comes about government will simply save on public expenditure and there will be no extra benefit to the universities. I think if students are going to pay more they themselves will want to see an improved quality of the provision of education and that has to be guaranteed, otherwise none of these schemes is a starter.

So is there a point when you say OK, we are going to have to put a limit now on the numbers going in for higher education, because the quality of what they are receiving is declining?

Well, it isn't declining yet but I think it may decline. Our efficiency gains have been enormous. At the University of Sussex we have nearly doubled the number of students in five years without any increase in our plant. Our staff are absolutely strapped for space, our students are strapped for space. Nevertheless we are maintaining the quality of education but it will be threatened in the future and that is the problem.

And of course more loans would be very unpopular with the students no doubt.

Well if it is a properly administered loan system which is contingent on their income over a number of years I think many students would accept it, particularly those disadvantaged students who simply can't go to university at the moment. We do want to see a greater involvement by disadvantaged students, we want to see a greater enrolment by part-time students and by mature students. We are very firmly committed to the notion that a much higher proportion of our population should go to university and of course to colleges of further education. We think that that is the only way this country is going to survive in the next century. It is as important as that.
Peter Wright (pictured above with workshop staff) describes his six years as supervisor of the MAPS mechanical workshop as the most rewarding time of his life. He has now retired after 28 years at the University, during which he has earned the respect and admiration of many people. It is doubtful, however, whether former Vice-Chancellor Sir Denys Wilkinson is among them. When the VC turned up for the 1986 MAPS Christmas party without a ticket, Peter refused him entry. Sir Denys introduced himself, but Peter wasn’t impressed. "And I’m King Canute," he said. "No ticket, no admission." Needless to say, the Dean of MAPS soon smoothed things over.

The Careers Advisory Service is dead — Long live the Career Development Unit

There is a new name and a new emphasis, but will the prospect of using the careers service continue to cause panic among directionless students? Ben Ball, director of the CDU, explained the new philosophy to Michael Brooks.

Staff in the Career Development Unit are now changing the balance of their work. "Traditionally Career Services have worked with individual students," says Ben Ball. "That emphasis has now shifted towards equipping them to handle their own career planning. Instead of seeing individuals about their CV, we’d far rather teach a group of students to be more effective communicators, and teach them how to promote themselves." Despite the sad statistics of recent graduate employment, Ben is defensive of the degree as a route to a brighter future. "The job market for 18 year olds has now atrophied in the same way that it did ten years ago for 16 year olds."

University students, he says, are being realistic in looking for a degree to make some improvement in their career. But they need to start planning much earlier; the CDU will now be seeking far more contact with second year students. "By working with students early in their courses we hope they will be more prepared to engage in some sort of action at an early stage. We hope to work closely with tutors, because a lot of our ideas count on their support. This autumn, for example, we hope to be doing a series of workshops for maths students: we can’t do that as part of the degree programme without the tutors’ support."

The planned activities are all designed to raise awareness that some thought is necessary at an early stage. Highly successful last year, the work-shadowing scheme will continue to provide contacts and experience for students hoping to enter a wide range of professions. Students need experience, according to Ben: not only to put on their CV, but also to shape their ideas. The CDU will be running workshops and simulations within all the Schools of Study. "The message to students is not just to come and see us, but also to engage in some development activity which will help with their career planning. The business of a career can be prepared for: those that plan for the next stage in their careers are obviously going to be more successful in finding work they consider rewarding. Unfortunately, opportunities don’t just occur by chance, you have to invest time in finding them. That’s a difficult message to give when students already have heavy workloads."
What's on...

Monday 11 October – Sunday 17 October

Lectures, Seminars, Colloquia

- **Monday 11 October**
  4.15pm Chemistry Colloquium Programme: A Comedy of Errors. Prof J. Comforth, MSLT, MOLS.
  4.30pm Neuroscience Seminar Series: Modulation of Ion Channels by G-protein Linked Receptors. David Brown (UCL), Biology Lecture Room.

- **Tuesday 12 October**
  4pm COGS Seminar: Computers, Collaboration and Cultural Psychology. Dr Charles Crook (Durham), PBS5C11.

- **Thursday 14 October**
  1pm IDS Seminar Series: Sovereignty and Suffering. Martin Griffiths (Action Aid), Room 221, IDS.
  5pm Social and Political Thought Seminar: Universalism and Particularism in the Formation of Political Identities. Ernesto Laclau (Essex), Arts D 710.

- **Friday 15 October**
  2.15pm SPRU Seminar: Academic Science as a System of Markets. Prof John Ziman FRS, South Committee Room, 1st Floor, Refectory Building.

- **Saturday 16 October**

**Centre for Continuing Education**

- University Day Schools – Sat 23 October
  For details of the courses below contact Sue Fassquelle on ext. 8537.

  Rachmaninoff
  Exploration of the different facets of Sergei Rachmaninoff’s musical personality - led by the composer Michael Lipkin.

  Twentieth Century American Art
  Reconsideration of the period which saw American art begin to dominate the world - led by Christopher McHugh.

  Women and Sexuality: Images and Identities
  Chris Pegg leads a discussion into what is sexuality? Fees for all the above courses: £15 / reduced £10/ minimum £4.

**Volunteer Work**

A Link-Up meeting is being held in Welfare (Falmer House) on Thu 14 Oct at 5.30pm for anyone interested in volunteer work. Contact Saskia Neary on ext. 8149 for further details.

**Memorial Conference**

- **Border Crossings**
  One day conference in memory of Christopher Thorne, professor of international relations at the University. Meeting House, Sat Oct 16, 9.30am. Fee £8 (incl. lunch and refreshments). For details about the conference contact Dr Scholte on ext. 2050.

**Career Development Unit**

The Career Development Unit is running a number of workshops, career talks and presentations throughout the year, details of which will appear regularly in the Bulletin:

- **Career Development Workshops**
  Social Scientists – Tue 19 Oct, 2 - 4pm
  Mature Students – Wed 20 Oct, 2 - 4pm
  Scientists – Thur 21 Oct, 2 - 4pm

- **Making Career Decisions** – Wed 20 Oct, 10 - 12 noon

- **Creative Strategies** – Thur 21 Oct, 10 - 12 noon

**Design your cv.** – Tues 19 Oct, 10 - 12 noon

Places on the above courses must be booked in advance. Contact the CDU on ext. 84289 for details.

**Career Talks**

**ASSOCIATION OF COMMONWEALTH UNIVERSITIES** wants to talk to UK students (any discipline) interested in postgraduate study in the Commonwealth. Tue 19 Oct, 5.30pm in the CDU Information Centre, Falmer House.

**THE POLICE** want to meet students (any discipline) interested in finding out more about graduate opportunities in the force. Wed 20 Oct, 6pm in the CDU Information Centre, Falmer House.

**WORLD BANK PRESENTATION** for postgraduate economics students who have applied for their Young Professional Programme (application forms are available from CDU and must be completed and returned by 15 Oct). Fri 22 Oct 10.30am in the CDU Group Room.

**Gardner Centre**

- **Driving Force Spectacular**
  New show performed by Union Dance Company one of the country’s leading dance companies. Tue 12 - 13 Oct, 7.45pm.

- **Mother Courage and Her Children**
  Bertolt Brecht’s classic performed by the Royal National Theatre. Thur 14 - Sat 16 Oct, 7.45pm.

- **Jango Bates**
  Acclaimed 18 piece band/orchestra playing jazz and new music. Sun 17 Oct, 7.45pm.

**Postgraduate Fair**

- **Interested in postgraduate study?**
  Find out more about the courses and research available at Sussex and Brighton Universities at the Sussex Postgraduate Fair, 1 - 4pm, Thur 28 October in the Refectory Building.

**Student Vacancies**

- **Computer Trainers Required**
  Vacancies exist to deliver introductory computer courses at weekends or week day evenings. Good knowledge of University PC system WRITE: WORD for WINDOWS or Library Network Information system is preferable. Would suit postgraduates. £10 per hour. Contact the Computing Centre Reception for details on ext. 8090.

Meeting House Events

**LUNCHTIME RECITAL**: John Birch (organ). 1.15pm, Tue 12 Oct in the Chapel.

**PARTY**: New students interested in Chaplaincy activities are invited to welcoming party in the Meeting House at 7pm, Thur 14 Oct.

Miscellaneous

**Gold Chain Found** on Sat 2 Oct in the Refectory. Level 1. Contact Judy in the Conference Office on ext. 8679.

**Playing Fields Pavilion**. Bar and hot food available Mon - Fri lunchtimes 12 - 2pm; Jazz on Fri lunchtimes; hot suppers Mon and Thur 8 - 10pm.

**Frank Cello Sonata.** Michael Downes (cello) and Robert Adlington (piano). 1.15pm, Tue 12 Oct in the Recital Room.

Small Ads

**HOUSE TO LET**: Hove area close to station. 2 bedrooms, large lounge with dining area, fitted kitchen, large bathroom, patio. Suit faculty, staff, mature student. £1045p.w. Available now. Contact 821213 after 6pm.

**FLAT TO LET**: Kempstown, third floor, 1 bedroom flat with central heating. Excellent sea views. Faculty or mature students preferred, £90 pw (neg), Contact 601348.

**Bulletin**

The Bulletin appears each Friday with the copy deadline the preceding Friday. We welcome any suggestions for news, details of events, letters and small ads, etc. Please contact the Information Office, Sussex House, ext. 8209 or Email: Bulletin@uk.ac.sussex.admin.

The Bulletin is produced and published by the Information Office. Campus photography is by the Photographic and Design Unit and printing is by the University's Printing Unit.

Printed on Environmentally Friendly Paper.
GENERAL

Everyone will realise from the first day of the Academic Year that car parking on Campus is extremely limited, and will appreciate the need for a voluntary reduction in demand if severe measures to preserve the environment of the Campus are to be avoided.

Car parking issues were addressed in the Consultative Paper on The Management of Car Parking published in June, and an analysis of responses will be published soon. In the meantime a number of initiatives, as outlined in the BULLETIN of 1 October have been taken to improve public transport services to the University and alleviate car parking problems. This BULLETIN SPECIAL gives more detail on the outcome of some of those initiatives.

CAR PARKING SPACES

The Arts Car Park is being re-modelled to create an additional 50 places with a new access from the IDS Car Park road. Unfortunately, adverse weather conditions prevented work being completed before the beginning of Term but the car park will have been re-opened on a phased basis by the time this BULLETIN SPECIAL appears. The car park will be illuminated as part of the current programme of street lighting improvements.

Further spaces will shortly be released from the works on the extension to the Biology Building and additional spaces are being provided as and when possible.

The area of ground between the Sportcentre Car Park and the Sportcentre Road has been designated as an emergency overflow car park.

Once all the above is completed, roadside verge parking, with its consequent damage to the landscape, will be actively discouraged.

VISITORS' CAR PARKS

A visitors' car park has been created at Sussex House, and another is being created at the Refectory. These are smart card barrier controlled, and will soon be linked to the Security Office by CCTV and voice intercom.

Pre-dated day and period cards for advance issue to visitors are available free from the Security Office, and for casual visitors from that Office, and Sussex House and Estates Building Receptions. Casual visitors will also be able to speak direct with the Security Office which will be able to operate the barriers by remote control. Requests for visitors parking for special events should be addressed to the Security Office.

Everyone is asked to encourage their visitors to use these car parks rather than take up other parking spaces.

NEW BUS SERVICES

To assist and encourage members of the University from North and East Brighton to use public transport, two new direct bus services were introduced from 4 October 1993:

**North Brighton:** Preston Circus, Preston Park, Withdean, Hollingbury and A27 to University (Brighthelm).

**East Brighton:** Old Steine, Kemp-town, Whitehawk, Woodingdean, Falmer, University (Brighthelm).

The initial timetable for these services is detailed on page 4.

LATE NIGHT BUS SERVICE

A new service running hourly from 8.30pm to 2.30am has been introduced from 4 October 1993 - the route and timetable are detailed on page 3.

Only pre-paid tickets will be valid, available at 75p each from trading outlets on Campus on production of aRegistration or Identity Card. These tickets are not valid on any other service and the driver is not authorised to accept direct payment or issue tickets.

TRAINS

It is hoped it will soon be possible to announce new concessionary fares for students travelling to Falmer. However, further statistical data is required, particularly on the effect of the restriction on the use of Cheap Day Return tickets, before discussions can be concluded on similar concessions for staff. All staff are therefore encouraged to complete and return the brief questionnaire overhead.

INFORMATION LEAFLET

A general information leaflet on car parking on Campus and on all public transport serving the University is being prepared for distribution as soon as possible.

R E Bailey
Estates Manager & Chief Engineer

October 1993
Please tick ☑ the appropriate boxes.

Q.1 Are you:
- a University of Sussex student? ☐
- a University of Sussex employee? ☐
- an on-Campus non-University unit member? ☐
- other? ☐

Q.2 Did you regularly use the train to get to the University prior to the use of Cheap Day tickets etc being restricted to the first train after 9.00am?
- YES ☐ Please go to Q.3
- NO ☐ Please go to Q.5

Q.3 Do you still regularly use the train to get to the University?
- YES ☐ Please go to Q.4
- NO ☐ Please go to Q.5

Q.4 Did you change your working/timetable hours to avoid the restriction on the use of Cheap Day return ticket etc?
- YES ☐ Please go to Q.6a
- NO ☐ Thank you for completing this questionnaire.

Q.5 How do you currently get to the University on a regular basis?
- BUS ☐
- CAR ☐ Please go to Q6b
- OTHER ☐

Q.6 If concessionary fares were available for services before the first train after 9.00 am, would you:
(a) revert to your former working/timetable hours?
- YES ☐
- NO ☐ Thank you for completing this questionnaire.

(b) revert to/consider using the train to get to the University?
- YES ☐
- NO ☐

Completion of the following is not essential, but doing so will help in arguing the validity of this survey. This information will be treated in the strictest confidence and will only be used for validation purposes.

Name (Capitals please) ............................................ Unit ..................................................

Signature .................................................................

Please return your completed questionnaire to: R E Bailey, Estates Manager, Estates Building, University of Sussex.

- 2 -
THE UNIVERSITY OF SUSSEX

NEW BUS SERVICES

in conjunction with
Brighton & Hove Bus and Coach Co Ltd

LATE NIGHT BUS SERVICE

UNIVERSITY OF SUSSEX - Lewes Road - Queens Park - Sea Front - Holland Road - Preston Circus - Fiveways - Lewes Road - Coldean - UNIVERSITY OF SUSSEX

ROUTE: University of Sussex (Refectory Road) - Lewes Road - Elm Grove - Queens Park Road - Rock Gardens - Marine Parade - Kings Road - Holland Road (Holland House) - Davigdor Road - Seven Dials - North Road - Gloucester Place - London Road - Preston Circus - Preston Road - Stanford Avenue - Fiveways - Hollingbury Road - Hollingdean Road - Lewes Road - Coldean Lane (Varley Halls) - Lewes Road - University of Sussex Campus.

*Other than at Holland House, this service will use scheduled bus stops only.*

MONDAY - SATURDAY - TERM TIME ONLY
University of Sussex and University of Brighton Passholders Only **

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** Prepaid tickets only will be valid on this service - bus drivers are not authorised to accept direct payment or issue tickets. Tickets are available at 75p each from trading outlets at the University of Sussex and University of Brighton on production of a current Registration or Identity Card. These tickets are not valid on any other service.

Initially, this service will be operated with a single 30 seater bus, and until demand, and the need for any additional services can be assessed, the service may be oversubscribed and therefore possession of a prepaid ticket does not guarantee a seat on any particular journey.

The Brighton & Hove Bus and Coach Co Ltd do not accept any liability for any errors in the above information.

30.09.93
REB/JPB
NEW SCHEDULED SERVICES

SERVICE 85/85A

UNIVERSITY - Woodingdean - Whitehawk - Preston Circus - Hollingbury - UNIVERSITY

Route: University Campus, Refectory Road - Falmer Road - Bexhill Road - Cowley Drive - Broad Green - Shipley Road - Downs Valley Road - Crescent Drive North - The Ridgeway - Warren Way - Downs Hotel - Warren Road - Wilson Avenue - Vines Cross Road - Swanborough Drive - Whitehawk Way - Whitehawk Avenue - Whitehawk Road - Bristol Gardens - Church Place ret. Eastern Road - Eastern Road - Edward Street - Victoria Gardens Bus Lane - St Peter's Church - London Road - Preston Road ret. Beaconsfield Road - Preston Park - Preston Road - London Road - Carden Avenue - Crowhurst Road - A27 By-Pass - University Campus.


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CODE:  C - Continues beyond University to Woodingdean and Whitehawk as Service 85.
        A - Continues beyond University to Hollingbury and Preston Road as Service 85A.
        * - Continues to Kemptown and Edward Street setting down only if required.

The Brighton & Hove Bus and Coach Co Ltd do not accept any liability for any errors in the above information.

30.09.93
REB/JPB

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