INDUSTRY BOOST FOR COGNITIVE SCIENCES

More than £400,000 of computer equipment has been donated to the University by Hewlett-Packard (HP) to support teaching and research in Artificial Intelligence, within the new School of Cognitive Sciences (formerly the Cognitive Studies Programme).

Sussex was chosen in recognition of the outstanding reputation it has in this field, a fact acknowledged by Dr John Taylor, Director of Hewlett-Packard's Bristol Research Centre, at the official handover ceremony on Thursday, June 11. The donation was accepted by the Vice-Chancellor, Sir Denys Wilkinson.

This substantial donation comprises twelve HP9000/300 workstations and printers networked to a fileserver. Each workstation is a powerful computer in its own right, has its own small disc, printer and high-resolution display, and can have a number of ordinary terminals plugged into it so that each can support several students' work simultaneously.

The workstations will run POPLOG, a software tool kit for research and teaching in Artificial Intelligence (AI), developed by staff in the School of Cognitive Sciences. POPLOG is marketed world-wide and can be used on various machines such as the VAX, Sun workstations, and GEC Series 63, as well as the HP9000. Over 90 UK universities and polytechnics are using POPLOG for teaching and research, as well as many industrial firms here and abroad.

The main users of the donated equipment will be postgraduates taking the MSc in Knowledge-Based Systems and research students studying AI. The MSc, which has expanded over the last few years, attracts many well qualified applications for each place. Prior to this donation, it lacked suitable computer facilities.

The aim of the MSc is to provide a one-year conversion course for graduates in other fields, preparing them for research or development work in AI.

Students take courses in programming techniques, including such topics as knowledge representation, reasoning, vision or language understanding processes. They also choose a course in either linguistics, philosophy, psychology, or logic.

Dr Benedict Du Boulay, Chairman of Computing Studies, told Bulletin, "The donation has allowed us to provide a powerful system for our students and to free some Computing Centre facilities for other users. Our graduate students can now plan to use the kind of machine that they will expect to meet when they leave for jobs in industry and commerce or other research laboratories".

The HP9000 workstations are presently expensive and relatively rare, but in the near future, machines of comparable power will be much cheaper and more widely available, thus making it important that current students should be taught how to use them.

Commenting on the donation, Dr John Taylor said, "Universities are well aware of the skills that industry requires, but do not always have sufficient funds to equip their courses satisfactorily. Donation of equipment is one of the ways in which industry can help reduce the shortage of skilled people required in Britain".

The Vice-Chancellor described the computer systems as "a most welcome and generous gift", and expressed his hope that the future will bring many years of co-operation between the University and Hewlett-Packard.

This donation strengthens the already well-established connections with industry fostered by Sussex, which now receives almost 20% of its research income from commercial and non-governmental sources. A recent major link in the computing field has been the funding of a Chair in Computer Science by Eurotherm International, the Sussex-based high-technology group, and the University has helped to set up a company, Cognitive Applications, to provide consultancy and products in the field of AI.

PICKFORDS TRAVEL OPENS

Pickfords Travel will open for business on July 1 at 9 am in the Refectory Building, with a Grand Opening to follow in October. Simon and Lorraine will be happy to help you.
SUSSEX FROM SPACE

The University's Geography Laboratory has recently acquired computer-based equipment which displays images of the earth's surface taken from satellites. This is proving to be an important source of data for environmental scientists, meteorologists, geographers and planners because it can provide regular, up-to-date information.

Most people are familiar with the scenes shown daily as part of the TV weather forecast but few realise that live pictures can be received with relatively inexpensive equipment. Several times a day, orbiting satellites operated by the USA and USSR are within range of receiving equipment in the Laboratory in Arts C. These provide a synoptic view of the weather over the British Isles and western Europe. At the same time, a geo-stationary satellite, positioned over the equator and on the Greenwich meridian produces a continuous stream of images of one side of the globe so that we can examine the main weather patterns from Iceland to Southern Africa.

A second source of information is provided by earth resources satellites such as LANDSAT (USA) and SPOT (France). We cannot receive these data live but obtain magnetic tapes which can be processed by new computer equipment to produce images of the earth. The Laboratory has images of Brighton and Sussex recorded in 1986 which are remarkable for their clarity. Bearing in mind that the satellite is orbiting at 832km in space.

The equipment enables us to exploit current computer technology to enhance the images so improving their use as a source of information. This is essential as the images are composed of information in both visible and infra-red portions of the electromagnetic spectrum. Urban structure, transport routes, crop patterns, vegetation and relief are all clearly revealed so that it is possible to update information previously requiring large scale ground surveys.

Other images currently held include parts of Morocco and Swaziland which provide students with an opportunity to compare directly semi-arid and temperate environmental conditions as well as serving as the basis for specialist research.

Anyone who would like to view or use the equipment is most welcome to contact me on ext. 2272.

Dr. Don Funnell
Director, Geography Laboratory

DISCIPLINARY PANEL

The Disciplinary Panel has now completed the hearing of charges against 46 students, arising from the occupation of Sussex House earlier this year. Forty-three were found guilty and two were found not guilty of the charges against them. One student withdrew from the University before the hearing of the charge took place.

The most severe penalty the Panel imposed was rustication for one year, in the case of a student who was charged with a number of offences spread over several years, as well as with involvement in the recent occupation. This sentence has subsequently been confirmed by the Appeals Board.

Of the others found guilty, 36 were fined amounts ranging from £200 to £25. One student was severely reprimanded, and five were reprimanded.

YOUR CHANCE TO APPEAR
IN A BRUCE FORSYTH PROGRAMME

London Weekend Television is looking for people who have acquired unique skills or knowledge through their profession, hobbies or sport, to participate in a new Bruce Forsyth series "It's A Bet" in which four challengers perform a task in a set time. Brief details are held in the Information Office, Sussex House.

The University of Sussex stand at the South of England Show held at Ardingly on June 11 to 13. Deputy Secretary Pat Tye is pictured assisting two of the many visitors to the stand, some of whom came from as far away as Sweden, the United States and Yugoslavia. The exhibition was also visited by the President of the South of England Show (and former University Treasurer) Lord Gibson.
PEOPLE

SUMMER GRADUATION CEREMONY

Four honorary degrees will be awarded at this year's Summer Graduation Cerem-
omy to be held at the Brighton Centre
on July 7 and another will be awarded
later in the year.

Sir Denys Wilkinson, who retires this
summer after 11 years as Vice-Chancellor,
is to be awarded an Hon.LLD, as is
Professor Glanville Williams, formerly
Rouse Ball Professor of English Law
at Cambridge (and father of Rendell
Williams in Geography).

An Hon.DSc is to be awarded to Professor
Donald Lynden-Bell, Professor of Astro-
physics and Director of the Institute
of Astronomy at Cambridge.

Actor, director and long-time University
Pro-Chancellor Sir Richard Attenborough
is to receive an Hon.DLitt. So, too,
will Sir Run Run Shaw, the Hong
Kong film and TV industry mogul and education
benefactor, at a later ceremony in Hong
Kong. Sir Run Run is prevented from
coming to Britain because of ill-health.

A.D.B. (Eddie) Wearing, a postgraduate
student in the School of Engineering
& Applied Sciences, with the Chair-
man's Cup awarded to him by the Sussex
Centre of the Institution of
Electrical Engineers. The cup is
awarded annually for the best paper
presented by a younger member of the
1EE at a short-papers competition
evening. Eddie will now go forward
to compete with the winners of
similar competitions from other
regions in a national competition.

Eddie's paper was based on the
research he is carrying out into high-
speed, permanent-magnet motors under
the supervision of Dr. Graham
Williams. This is the fourth time in
five years that an EAPS postgraduate
has won the trophy.

Professor John Murrell, Pro-Vice-Chancellor (Science), pictured with his last
three personal students in MV2, who are graduating this year. They are, from
left to right, Philip Kelly, Ian Jones and Andrew Willetts, and have all got
first-class degrees, having been interviewed by Professor Murrell and offered
places at Sussex in 1988.

As Pro-Vice-Chancellor (Science), Professor Murrell no longer takes personal
students.

TO THE HOUSE OF COMMONS

Three former Sussex students successfully
stood for the Conservative Party in
the General Election. And two former
members of faculty - one Labour and
one Conservative - were also among
the Members of Parliament in the new
House of Commons.

Tony Baldry, who was returned as MP
for Banbury, was a student in the School
of Social Sciences from 1969 to 1972,
graduating with a degree in Law.

Nigel Forman, who studied for a DPhil
at Sussex from 1967 to 1973, retained
his seat at Carshalton and Wallington.
He first became an MP in 1976.

Among the new MPs is Nicholas Bennett
who took an MA in Educational Policies
and Decision Making at Sussex between
1982 and 1984. He represents the Pen-
broke constituency.

Two members of faculty who went into
politics were again successful in defending
their seats. Stuart Holland, who was
first elected in 1979, was returned for
Labour at Vauxhall. Robert Rhodes
James kept his seat at Cambridge for the
Conservatives.

KINSHIP FOR JOHN LYONS

John Lyons, who left Sussex in 1984
to be Master of Trinity Hall, Cambridge,
received a knighthood in the Queen's
Birthday Honours "for services to the
study of linguistics". Sir John is a former
Pro-Vice-Chancellor and Professor of
Linguistics at Sussex.

IEE DIVISION CHAIRMAN

Professor B.V. Jayawant, Dean of the
School of Engineering & Applied Sciences,
has been elected Chairman of the Comput-
ing and Control Division of the Institution
of Electrical Engineers from October 1.

And on March 17, 1988, Professor Jaya-
want is to give a review lecture to the
Royal Society on the subject of
electromagnetic suspension and levitation
techniques.

TO RETIRE

Professor Roger Blin-Stoyle is to take
early retirement at the end of this
calendar year. He was the first Dean
of the School of Physical Sciences in
1962 and first Dean of the present School
of Mathematical and Physical Sciences
in 1966. He has also been Deputy-Vice-
Chancellor and Pro-Vice-Chancellor
(Science). He is currently much involved
with the School Curriculum Development
Committee of which he is chairman.

Also taking early retirement is Dr.
Maurice Wilford. Dr. Wilford has been
Sub-Dean of MAPS since 1972.

PUBLIC RECORDS APPOINTMENT

Valerie Cromwell, Reader in History,
has been appointed to the Lord Chancel-
or's Advisory Committee on the Public
Records.

AMERICAN PRIZE

Dr. Peter Unsworth of the School of
Engineering and Applied Sciences paid
a visit to the United States to collect
the 1986 Lynde Bradley Product Innovation
Award.
IN BRIEF

BRITISH EXPERTISE IN SCIENCE & TECHNOLOGY DATA BASE

Longmans Cartermill, responsible for the development and marketing of the British Expertise in Science and Technology (BEST) data base, have generously made available to the Industrial Liaison Office an IBM PC. This will enable the Office to access details of those members of faculty who provided information to BEST about their expertise. Further, it will considerably help in identifying the location of facilities and services wanted by industry but not available at Sussex.

Any member of academic faculty not already on the BEST data base, but who would wish to be, should contact the Industrial Liaison Officer, who will be pleased to assist.

ACADEMIC PLAN

The University's Academic Plan, based on the Draft Plan for 1990, has been submitted to the University Grants Committee. It has been circulated also to the Senate and the Council and may be found in School Offices among the former's papers. A few individual copies are available on request to the Planning Section at Sussex House (ext. 4724).

LMS SPITALFIELDS LECTURES

The London Mathematical Society's second Spitalfields Lectures are to be held at Sussex in July. These prestigious, colloquium-style lectures are intended to be accessible to a general mathematical audience and will be given by four distinguished speakers: C. Gordon (Austin), M. Scharlemann (Santa Barbara), S. Donaldson (Oxford) and W. Thurston (Princeton). The latter two speakers are holders of the Field's Medal - the mathematical equivalent of the Nobel Prize, and they are all members of the Symposium on Low Dimensional Topology which is being held at Sussex in July.

The lectures will take place on Wednesday, July 15, in Lecture Theatre A53, beginning with coffee at 10.30 a.m. An informal lunch is available at £2.00 per person. Bookings and payment for lunch must be made by July 1 to Pauline Steele, Mathematics Division, MAPS (cheques payable to Sussex Topology Conference). Further details from the organiser, Roger Penrose, in MAPS.

U3A - FOR RETIRERS

Retiring (or retired) Sussex staff may be interested to know about a relatively new movement which has now firmly taken root in S.E. Sussex. The University of the Third Age (U3A) is a national organisation run by, and for, retired people of any age who want to continue stretching themselves intellectually and creatively. No qualifications are needed and none are given. U3A members organise their own activities and offer their knowledge, skills and experience to each other. Local programmes take a variety of forms and, if retired, the expertise available and the inclinations of those who participate.

U3A would like to hear from both potential new members and anyone (retired or not) who would consider offering a course, leading a study group on a specialised topic or contributing an occasional lecture. All will be warmly welcomed. For further information contact any of the following U3A branches: Brighton & Hove: Graham Woodman, tel. Bn.20288; Lewes & District: Stella Cleaver, tel. Lewes 457838; Eastbourne & Districts, Stanley Letchford, tel. Polegate 2047; Audrey Blien-Stytle, for the U3A S.E. Sussex Joint Committee.

CIRCUS AT THE GARDNER

The Gardner Centre moves outdoors this week in spectacular style when Circus Burlesque perform in a specially erected little big top in the grounds outside the Centre. The delightful multi-coloured big top is perfect for circus theatre in an intimate setting. Circus Burlesque combine traditional circus skills such as trapeze, juggling and unicycling with dance, theatre, mime and live music. The show is suitable for all ages and provides high-quality comedy entertainment with a strong story-line.

"Circus Burlesque have a tremendously wide appeal," Gardner Centre Director Nigel Cutting commented. "Children and parents will enjoy it, and there's plenty in the show for fringe theatre fans too. It's very exciting for us to be able to present a show outside the Centre for a change."

This multi-talented company draw on experience ranging from Barnum and Gerry Cottle's Circus to Birmingham Music Theatre and Circus Senso.

Circus Burlesque's shows run from Thursday to Sunday, June 25 to 28. Times are: Thursday, 2.30 p.m.; Friday, 7.30 p.m.; Saturday, 2.30 and 7.30 p.m.; and Sunday, 3 p.m.

Tomorrow (Wednesday, June 24) the Gardner presents the legendary singer/songwriter Roy Harper, a veteran of some 20 albums since he first came to prominence in the late 1960s. Harper has worked with many of the biggest names in British rock music including Paul McCartney, Jimmy Page, Kate Bush and Robert Plant, and is a powerful and intense writer and performer.

An extra event added late to the Gardner Centre's present programme is a concert by the splendidly-titled Penguin Cafe Orchestra on Thursday, June 30. This band was the undoubted hit of a South Bank Festival of Contemporary Music early this year and performs only rarely. Their complex and intriguing music has attracted an increasingly wide following.

The Gardner Centre remains busy throughout the summer with events, summer schools and conferences. There will be an exhibition of fine sculptures by local artist Peter Gough in the Centre's Gallery from July 13 to 18. A visit from the National Theatre's Education Unit is planned for September with a new play, Apart From George, by Nick Ward. This play will feature in the Edinburgh Festival and will then come to Brighton as part of a national tour before going to the South Bank's Cottesloe Theatre. Provisional dates for this production are September 17 to 19. Further details will be available from the Gardner's box office during the summer.

Highlights of the forthcoming autumn programme include Cheek By Jowl's new production of Macbeth, Phoenix Dance Company, Jill Gomez, Linton Kwesi Johnson and jazz from Don Cherry. Full details of the programme will be available from September 1.
GHOSTS OF ROMANTICISM PAST

If David Mellor has read the arts pages of the national press recently he should be a happy man. For he will have seen the critics describe the current Barbican exhibition, of which he is curator, in glowing terms.

"A Paradise Lost is the consciously evocative title of a splendid exhibition" (William Packer, Financial Times). "It is seldom one encounters an exhibition with so much soul as this one. A Paradise Lost...is one of the happy few" (John Russell Taylor, The Times). And Marina Vaizey in The Sunday Times uses the words "enchanted", "thrilling" and "triumph" in her review which begins: "We will never be able to think of this century's British art and literature in quite the same way after the new exhibition at the Barbican".

The exhibition, sub-titled The Neo-Romantic Imagination in Britain 1935-55, reassesses a forgotten period in British art. Dr. Mellor, Lecturer in History of Art, says of the period: "From the late 1930s through to the 1950s, a number of British artists, writers, photographers and film makers produced a new kind of Romantic art. While it looked back to a 19th century tradition of 'visionary' art - to William Blake and to certain styles of landscape painting, it also drew upon the continental Modernist art of Picasso, Miro, Rouault and Masson."

"By the mid '40s, from these diverse styles and sources, the artists had begun to map Britain's Romantic self-image: a fantasy island of history that was never under threat from bombs and missile attack from Nazi Germany."

More than 400 paintings, drawings, photographs, posters, designs, book jackets and film stills from the period have been brought together from public and private collections for this exhibition. In all, works by more than 20 British artists of all kinds are represented, including painters John Piper, Paul Nash and Graham Sutherland, photographers Bill Brandt and film maker Michael Powell.

The book (a "delight" to the Daily Telegraph) which accompanies the exhibition, is edited by David Mellor and throws new light on a time when British art, the ballet, film, photography and literature were tightly integrated. "A Paradise Lost: The Neo-Romantic Imagination in Britain 1935-55" is published by Lund Humphries for the Barbican at a special exhibition price of £9.95.

Dr. Mellor was also responsible for the Barbican Art Gallery's highly successful Cecil Beaton exhibition in 1986. Looking ahead, he is to be the curator of a large exhibition of British Art in the 1960s which is to be held at the Barbican in 1989 or 1991.

There is still time to see A Paradise Lost: it is on at the Barbican until July 19.

UGC SUPPORTS NEW PHYSICS DIPLOMA FOR TEACHERS

Financial backing has been received from the University Grants Committee (UGC) for a proposed new course which aims to improve the standard of Physics teaching in local schools by bringing teachers to study part-time at the University.

The Postgraduate Diploma in Physics Teaching is part of the University's response to the national shortage of Physics teachers and the declining standards in school Physics teaching. Fewer pupils are taking Physics A Level which effects the numbers coming to study Physics at University, and thus the numbers training to teach Physics.

Special funds have been provided by the UGC for courses to tackle the shortages of Mathematics and Physics teachers. Sussex has won backing for the new Diploma in competition with many other institutions. A special grant and fees have been provided covering a three-year period.

The new course aims to commence in the Autumn Term 1987, and ten teachers have been selected from Schools in East and West Sussex following consultations with the Local Education Authority Science Advisers. In future years, entry to the course is expected to be by formal application.

The aim of the Diploma, as set out in the detailed proposals to be presented to the Senate tomorrow, is to enable teachers who successfully complete the course to teach Physics to GCSE and A Level with confidence. Sussex Physics lecturers will provide close tutorial and counselling support, and a portion of the course will be taught by experienced Physics teachers.

Those teachers attending the proposed course will take part in tutorials, seminars, and laboratory work carried out in the school of Education Science Laboratory.

The proposed Diploma is aimed at helping teachers improve in their present jobs, but may also help teachers who were not trained specifically in Physics to adjust to the teaching of that subject.

The new course is only one aspect of the extensive links built up between Sussex University and local schools in the field of Physics teaching. An in-service BEd degree was run in the 1970s for local teachers, and one-day schools, revision courses for Sixth Formers and Master Classes in Physics are currently run on a regular basis.

Dr Sandy Grassie, lecturer in Physics at Sussex, described the course as "a vital contribution to the scientific education of children in East and West Sussex", and expressed his hope that the scheme might be extended to neighbouring counties in future years.

LETTER TO THE EDITOR

It was pleasing to read of Stephanie Valentine's success in gaining a place on the Graduate Enterprise Programme. One contributing factor to Stephanie's confidence is the part played by the year abroad in Germany, the third year of her four-year course Mathematics with European Studies. There may be some people in the University who are not aware of the four-year Science with European Studies courses. Students major in Biology, Chemistry, Mathematics or Physics (and Engineering from 1983) whose minor consists mainly of acquiring a European language (French and German for all but a few Italian and Russian are also available) taught by the Language Centre. The year abroad at a continental university or library is a major factor in the students' acquisition of maturity and self-confidence.

James Hirschfield, Convenor, Mathematics with European Studies
CENTRE FOR CONTINUING EDUCATION

Professorial Inaugural Lecture
On the Nature of Technology
by Keith Pavitt
Professor of Science & Technology Policy
Tonight, June 23, 6.30 p.m.
Molecular Sciences Lecture Theatre

SATURDAY SCHOOL
Grasshoppers and Bush-Crickets of the South Downs. Tutor: Mike Jones. To be held on September 3 at the University and with field visits.

Further details of this and other courses from the Centre for Continuing Education, Education Development Building.

RESEARCH ASSISTANCE
The Institute of Development Studies wishes to appoint two full-time in-house research assistants, probably one economist and one non-economist, for one year from renewable. From July/Aug. 1987 to work to individual IDS Fellows on research assignments in development topics. Candidates should have a Masters, or good first degree in a social science. Statistical and computer competence is required for one and preferred for the other appointment. Salary £8,185.

Further details and application form from Francine Spencer, IDS, Room 206, ext. 4150. Closing date: June 19, 1987.

TERM DATES 1987-88
Monday, October 5 - Friday, December 11, 1987
Monday, January 4 - Friday, March 11, 1988
Monday, April 18 - Friday, June 24, 1988

LIBRARY NEWS
35,000: that’s the approximate number of enquiries received by Library staff in a term, if the experience of a sample week last February is any indication. (“Enquiries” excludes routine transactions like book issuing/returning, and cash handling.) Figures just available for the corresponding week in February 1986 show that this volume of enquiries is, when related to the size of the University, highest in any British university library, and three times the national average.

SMALL ADS


FRENCH PENFRIENDS. Parisian boy (13) and girl (14) want English penfriends. Meriel Price, ext. 8270.

BLACK LEATHER jacket for sale, nearly new, half price: £7.00. Tel. 8820315.

UNIVERSITY CLOSURES 1987-88
The University will be closed for the bank holiday on Monday, August 31, 1987, and on the following dates next session:
Thursday, December 24, 1987 - Friday, January 1, 1988, inclusive.
Wednesday, March 30 - Monday, April 4, 1988, inclusive.

SUBSISTENCE ALLOWANCES
The following increases in subsistence allowances have been agreed:

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<tr>
<th>Maximum Subsistence Allowances</th>
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<tr>
<td>1) Not involving overnight stay:</td>
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<tr>
<td>4 - 8 hours: £5.65 (was £5.30)</td>
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<tr>
<td>8 - 12 hours: £9.90 (£9.25)</td>
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<td>12 - 16 hours: £12.30 (£11.50)</td>
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<td>over 16 hours: £14.40 (£13.50)</td>
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<td>2) Involving overnight stay:</td>
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<td>London: £42.85 (£40.10)</td>
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<tr>
<td>Elsewhere: £37.95 (£35.53)</td>
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<td>3) For travel overseas:</td>
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<tr>
<td>Europe: £70.00 (£66.00)</td>
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<tr>
<td>Elsewhere: £80.00 (£75.00)</td>
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The new rates apply from January 1, 1987, but additional subsistence payments will only be paid on proof that the actual cost incurred exceeded previous maxima.

SUSSEX UNIVERSITY AIDS CAMPAIGN
Volunteers still needed. Please contact Justin Jackson, Atrias u.g.p. p.h or Park Village p.h. An advertisement for the appointment of an AIDS Co-ordinator (initially a 4-mth. post) will shortly be issued.

James Procter, Executive Committee
NALGO, Sussex University

ANNUAL GOLF TOURNAMENT
This will be played at Seaford Golf Club, East Blatchington (not Seaford Head) on Friday, July 17. The main event will be a 36 holes stableford competition off handicap. There will also be a scratch competition. The tournament is open to all members of the University and friends. It has proved a most enjoyable day out in past years, with golfers of every ability winning prizes. For further details and an entry form, contact J.W.P., Hirschfeld, MAPS (tel. 2993).

This is the last Bulletin of the Summer Term. The Information Office would like to thank all those who have contributed in any way to the Bulletin during the past term.

The first edition of the next session will appear on Tuesday, October 6 and copies could be received in the Information Office, level 2, Sussex House, by 4 p.m. on Monday, September 28. Publication dates for the remainder of the term are: October 27 (copy date October 19), November 17 (November 9) and December 8 (November 30).

Remember, we can only inform you if you inform us - tel. 8208.

The Bulletin is for the information of staff and students of the University of Sussex. Published by the Information Office. Photographs by the Photographic and Design Unit. Printed by the University of Sussex Printing Unit.