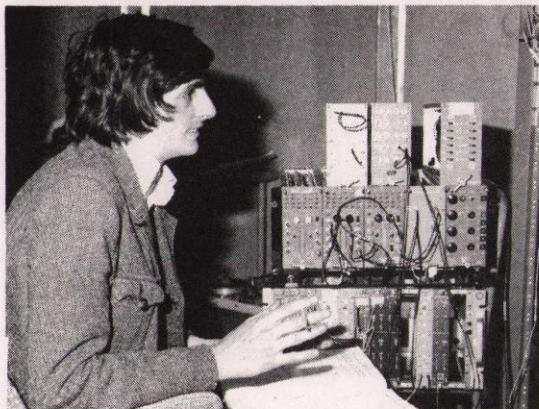


## Nimrod's Last Shift



Neil Downie (Imperial College) testing scintillators for the TASSO experiment.



Drs Stafford and Pickavance at the Closure Ceremony.



K20 beamline - the main users from Queen Mary College and Rutherford during their final calibration run



A team from Bristol University and Rutherford were investigating a novel Cerenkov counter design.

As 1700 hours approached on Tuesday 6 June, four teams of particle physicists were hastily completing their final shift on Nimrod. At 1705 Dr Stafford made the above announcement and seconds later a button was pressed and the beam died away.....

After fifteen years of devoted service to physics research, Nimrod - the last of the UK particle accelerators in the GeV energy region - was switched off for the last time. Henceforth the UK experimentalists must rely on using accelerators in other countries, especially at the CERN and DESY Laboratories.

The closure ceremony was attended by University and Laboratory staff and included the former Director Dr T G Pickavance and Mrs Pickavance. Following the ceremony, the gathering retired to the Restaurant to recount fond memories over a glass of ale and buffet supper. Many familiar faces from the past re-appeared to commemorate the retirement of the faithful "mighty hunter".



An Oxford University team were checking the ISIS detector destined for use at the CERN SPS.



## Internal Events

### NIMROD LECTURE SERIES

Monday 19 June  
1130  
Lecture Theatre

Verification of QED from a Theorist Point of View

*Prof R Barbieri (Pisa)*

### HEP DISCUSSION GROUP

Wednesday 21 June  
1100  
R61 Conference Room

The Diagrammatic Structure of Deep Inelastic Processes.

*W J Stirling - DAMPT Cambridge*

### NIMROD LECTURE SERIES

Monday 26 June  
1130  
Lecture Theatre

Production of Jets by Diffractive Dissociation of the Photon

*Dr D Newton (Lancaster University)*

### OVERSEAS VISITS

Dr P H Sharp to CERN, 18-28 June to 2-12 July, to work on proposal 202.

Messrs R Blatchford, R Croucher, P O'Brien and L Phillips to DESY, 18-30 June, for installation of equipment on JADE and TASSO experiments.

Dr E Eisenhandler to CERN, 19-21 June, for collaboration meeting and discussions on p p collider experiment.

Dr G H Stafford to CERN, 19-23 June, to attend meetings of the CERN Council and other CERN committees.

Dr K Green to ILL, 19-30 June, to work on experiments 174 and 157.

Dr H J Hoffman to Strasbourg, 23-30 June, to attend IV European Antiproton Symp at Barr.

Dr D Morgan to Strasbourg, 24 June-2 July, to attend IV European Antiproton Symp at Barr.

Dr R J N Phillips to Trieste, 25-28 June, to participate in the Trieste Conf on Particle Physics.

Mr K Davies to Washington, 26 June-1 July, to attend Nimbus G Spacecraft experiments pre-shipment review and discussions at General Electric.

Dr M W Johnson to ILL, 29-31 June, to attend workshop on multi-detectors and data evaluation.

Dr R C Hwa to Czechoslovakia and Denmark, 2-14 July, to attend IX Int Symp on High Energy Multiparticle Dynamics at Tabor, South Bohemia, and Symp on Jets in High Energy Collisions at Copenhagen.

Mr C W Planner to Frascati, 2-7 July, to participate in Free Electron Laser Study Group meeting.

### 5TH INTERNATIONAL CONFERENCE ON GAS DISCHARGES

The 5th International Conference on Gas Discharges, organised by the IEE in association with the IEEE (UK Section), Institute of Physics, IERE and the Welding Institute, will be held at the University of Liverpool 11-14 September 1978. Further information from Training Section, Building R20, Ext 266.

### OBITUARY NOTICE

We deeply regret to announce the death of Mr A P Banford on Sunday 11 June. He was aged 46. Tony Banford joined the Laboratory in 1961 to work on the PLA. During his time in building R12 he was involved with some of the early work on superconductivity and later became Head of Scientific Administration. He left the Laboratory in 1973 to take up an appointment at the SRC Headquarters. Tony will be sadly missed by all his friends and colleagues. We extend our deepest sympathy to his wife Jean and sons Jonathan and Adrian.

### CHANGES IN HOURS OF MEALS SERVICE With

effect from 12 June 1978 the following services will be discontinued: Daily Breakfast, Evening Meal on Friday, All weekend meals - the Restaurant will be closed completely at weekends.

The Restaurant will be opened for Evening Meals from Monday-Thursday 1700-1900 only.

## Families Day

The Laboratory was open to the families of staff and friends during the afternoon of Saturday 10 June. The occasion provided a suitable opportunity to tour the Nimrod areas, to see those enormous alternators, the giant magnet ring or just to clamber over sets of experimental apparatus. One could browse around the demonstrations at the Central Laser Facility and view the instruments used for neutron beam research. The technology and instrumentation displays highlighted the diversity of activities now under way at Rutherford - ranging from electron beam lithography and cryogenics to energy and space research. There were fun demonstrations of magnetic levitation, ultrasonics and the ever-popular skill of glass-blowing. The computing exhibits were as fascinating as ever, including computer-generated films, tours, and the skill-testing programs "Ballistics" and "Hunt the Wumpus". The most popular event was held in building R22, where almost all the visitors eventually arrived to chat over light refreshments and to rest weary feet.

Our thanks to the organisers and those in attendance for providing a thoroughly enjoyable family afternoon at the Lab.



Brian Prior encourages the budding talents of Philip and Emma at the Families Day



## External Events

ELEMENTARY PHYS SEMINAR/NP DEPT, OXFORD - 1430 hrs  
 15 June: Prof T T Wu/Utrecht/Harvard - Impact Picture and Internal Matter Motion for P-P Elastic Scattering.  
 22 June: Dr G Gopal/RL - Strange Baryonic Resonances in the mass range 1770-2170 MeV from Partial Wave Analysis of the World Data on Quasi Two-body Reactions for K<sup>-</sup>-proton Interactions.

THEORY GROUP SEMINARS/DARESBUURY LAB - 1400 hrs  
 19 June: Dr K Sturm/KFA Julich - Plasmons in s-p Band Metals and Semi-conductors.

THEORETICAL PHYSICS SEMINAR/SOUTHAMPTON UNIV - 1430 hrs  
 23 June: Dr K Konishi/Rutherford - Various Aspects of the Topological Expansion.  
 30 June: Prof A Luther/Copenhagen - Bosonisation of Fermions in Three Dimensions.

NUCLEAR PHYSICS SEMINARS/BIRMINGHAM UNIV - 1615 hrs  
 23 June: Dr Chan Hong-Mo/Rutherford Lab - "Baryonium"  
 30 June: Dr J Thresher/Rutherford - High Energy Interactions with Hyperon Beams.

## Sport & Social

NEW THEATRE OXFORD: Tel Oxford 44544/5

29 June: Boom Town Rats 7.30 pm Tickets £2.50, £2.00, £1.50.  
 18 June-3 July Film Festival  
 3 July FLIPSIDE - Play 7.30 pm Tickets £2.50, £2.00, £1.50.

\* \* \* \* \*

THE PLAYHOUSE OXFORD Tel: 47133

19 June-24 June Footlight, Cambridge Review 9.00 pm  
 Tickets: 1st night £1.00. Other nights £1.25 Friday and Saturday £1.50.  
 26-28 June Northern Ballet Company. Triple Bill 8.00 pm  
 Tickets: 1st night £1.25, £2.00. Other nights £1.25, £2.00, £2.75, £3.00.  
 29 June-1 July Coppelia 8.00 pm  
 Tickets: 1st night £1.25, £2.00. Other nights £1.25, £2.00, £2.75, £3.00.  
 Matinee 2.30 pm Saturday 1 July.  
 4-22 July Hobson's Choice by Harold Brighouse. 7.00 pm  
 1st night, other nights 8.00 pm.  
 Tickets: 1st night £1.25, £2.00. Other nights £1.25, £2.00, £2.75, £3.00.  
 Matinee 5 pm 8.15 pm Saturdays only.

\* \* \* \* \*

## Oxford Pro Musica



Sunday 18 June at 8.15 pm  
 at the  
 SHELDONIAN THEATRE  
 MESSIAEN 70th BIRTHDAY CONCERT  
 Symphony of Psalms  
 STRAVINSKY  
 OXFORD PRO MUSICA CHORUS  
 YANNIS DARAS, Conductor

Tickets: £2.50, £1.75, £1.20  
 Available from: C Taphouse & Son Ltd,  
 3 Magdalen St. Tel 44655.  
 Listen in Company (Haken & Bell)  
 High St, Abingdon; Tel: 24390



TABLE TENNIS!

ANNUAL GENERAL MEETING

IN R15

ON

THURSDAY 22 JUNE

AT 12.30.

ANYONE INTERESTED WELCOME

1978 OUTDOOR SPORTS DAY Advance Notice Tuesday  
 18 July at Chiswick.  
 Events - Football, Cricket, Netball, Hockey, Tennis,  
 Bowls and Angling. More details later.

\* \* \* \* \*

CRIB TOURNAMENT During a recent meeting, it was decided that there was adequate interest for a Crib Tournament. It will be held in the Coffee Lounge in R22 on Friday, 29 September, and will be organized by Mr T Morgan. Singles or doubles will be played according to the number of people interested. This is the first time that a Crib Tournament has been attempted at Rutherford, and support would be warmly received.

Anyone interested in competing please contact:

T Morgan	R18	Ext 563
P Craske	R2	Ext 232
Mrs P Morgan	R25	Ext 487 (before 2 pm)

\* \* \* \* \*

NEW ARRIVAL Congratulations to Dennis and Elizabeth Abbley on the birth of Edwin John on Saturday 3 June. Though Nimrod has closed, night shifts continue for some!

\* \* \* \* \*

LETTER OF THANKS Nora Hoyland has written to thank all those friends who contributed to her parting gift and to say "cheerio" to those whom she was unable to see before leaving. I am sure that everyone will join in wishing Nora a happy retirement.



# SRC GOLF TOURNEY

ACTION PHOTOS TAKEN DURING PLAY



*Patiently waiting  
for "tee" time.*



*The going was rough  
at times.*



*Ready for the  
Pounce.*



*New "one hand" style!  
away she goes!*

The first event of the new Rutherford Lab Golf Section was to organise the 1978 SRC Golf Tourney, held on Friday 2 June at Calcot Park near Reading. Ten teams competed for the Sir Brian Flowers Trophy including players from Appleton, Daresbury (3 teams), London/Swindon Office, RGO, Rutherford (3 teams) and a combined Swindon/Appleton team.

There was intense competition amongst the teams with many players on top form and full of confidence, charm and wit to suit the occasion (particularly across the lake at the 7th!). Polished clubs gleamed brightly as the first tee-off began at 0800 hours. As the play progressed, some good scores began to take shape. At the end of the day, the Daresbury A team were declared the winners with a nett aggregate score of 581. The Rutherford A team were in close pursuit with 583. Individual honours go to Reg Stokoe (9) of RGO for the best gross score of 169 for the day - winning this prize for the second year running. The best nett score for the day was by John Urquhart (24) of Appleton with 135. The best nett score in the morning was 64 by Percy Lawrinson (19) and in the afternoon was 68 by Eric Tomlinson (15), both from Daresbury.

The players wish to thank the host club for the excellence of the facilities provided.  
(For further information about the Lab's golfing activities please call the Hon Sec Mrs Sylvia Fones on Ext 6677).



Jim Valentine with the winning Daresbury team of (L to R) Nick Cummings, Don Taylor, Hamish MacFarlane, Percy Lawrinson, Brian Yates and Eric Tomlinson.

**CHRISTAIN FELLOWSHIP** Friday June 16 - Sing-a-long with Jim. If it is hot outside why not come along to the coolness of the lecture theatre for half an hour of singing with a gospel flavour. This will be very informal but on previous occasions has proved a time of spiritual refreshment.

Friday June 23 - Dennis Williams will lead a meeting entitled 'CONTACT'.

Friday June 30 - Bible Study led by Frank Smith.

Both meetings will be in the R2 Conference Room at 12.30pm and all are warmly invited to come along.

## Missing Equipment

Has anybody found a 7000 series Tektronix Oscilloscope Plug-in Unit Type 7A12 (Dual Channel Amplifier) serial number 100483. Lost by Mr C G Bonfield, Building R2, Room G15 ext 217/219.

Dawes Ultrasonic Cleaning Set, Power Unit and two Tanks. If found please return to A G D Payne, Lab 16, R12 Ext 460.

Would the person who borrowed the Stellaphone Tape Recorder please return it to Room 42 R20 as soon as possible.

**RUTHERFORD LABORATORY BULLETIN**

Acting Editor John Litt

Deadline for Insertions

1000 hours Tuesday 27 June

Please mail or phone-in contributions to:

Room 42, Building R20  
Rutherford Laboratory  
Chilton Didcot Oxon OX11 0QX  
Abingdon (0235) 21900 Ext 484

Published by the Scientific Administration Group