

29 January 1979 No.2

## Well and Truly Open

At a brief ceremony held on Monday 18 December 1978 The Secretary of State for Education and Science the Rt. Hon. Mrs Shirley Williams MP, formally opened the new building in Swindon which houses the Central Office of the Science Research Council and the Natural Environment Research Council.

In her reply to the welcoming speech of the Chairman of SRC, Professor Geoffrey Allen, the Secretary of State praised the work of both Research Councils and announced that additional funds were to be provided for SRC. Although these would be modest in amount there was hope that the contraction of recent years would soon come to an end.

After the unveiling of a commemorative plaque, a speech of thanks was made by Professor James Beament, the Chairman of NERC. Guests included Members of Council, Directors, representatives of Academy and Industry and Staff Side representatives. The new buildings consists of two courtyard blocks, linked by a large central block containing a variety of shared facilities. The Western block is occupied by NERC, who have called it 'Polaris House', whilst the larger (eastern) block is known as



The Rt. Hon. Mrs Shirley Williams MP unveiling a plaque to commemorate the opening of the new SRC/NERC offices in Swindon.

'SRC Central Office'. A permanent exhibition showing the work of SRC and NERC has been installed in the Concourse leading from the central reception area.

Staff of the Laboratory who find themselves in Swindon Central Office with a little time to spare are likely to find the exhibition well worth a visit.

## NIMROD Goes to Town

Following the decision to close down and dismantle NIMROD the Science Museum was approached to determine if any part of Nimrod would be of interest for preservation or for display purposes.

Science museum staff expressed considerable interest in Nimrod and its role within our national history but were daunted by its sheer size. It was agreed that the best way to display Nimrod in its proper setting with all its ancillary equipment would be to construct a scale model.

The preparation of the scale model was undertaken by Paradigm Models Ltd, of Bracknell Berks and the final result can be seen in the main entrance hall of R1.

The model will be displayed at the Laboratory until the beginning of February and then it will be transported to the Science Museum, South Kensington for an indefinite period of loan.





# INTERNAL Events

## RUTHERFORD LABORATORY

LECTURE - 1515 hrs

8 Feb: Dr R Hancox/Culham  
'Fusion, Status and Prospects'

## COMPUTING SEMINARS

COLLOQUIUM R27 - 1400 hrs

6 Feb: R E Thomas/R.L.  
The Floating Point System  
AP120-B Array Processor.  
20 Feb: Dr J S Hutton/R.L.  
WYLBUR at CERN and  
ELECTRIC at R.L. -  
A Case for Standardisation?

## NIMROD LECTURE SERIES

CONF.RM.R61 - 1100hrs

29 Jan: Prof C Jarlskog/Bergen  
'Grand Unification and  
the Proton Lifetime'.

## H.E.P. LECTURE SERIES

CONF.RM. R61 - 1100hrs

30 Jan: P M Stevenson/Imperial  
'QCD and Jets in  
Leptonproduction'.

## SAFETY FILM

LECTURE THEATRE - 1230,1315,1400 hrs

31 Jan: 'Your House in Order'.

## PARTICLE PHYSICS EXPERIMENTS SELECTION PANEL.

CHANGE OF DATES FOR 1979.

The dates are now as follows:-

Tues 13 Feb  
" 20 March  
" 24 April  
" 19 June  
" 18 Sept (no change)  
" 18 Dec (no change)

Any papers to be submitted to the  
Panel should reach J J Thresher  
preferably 3 weeks, but not later  
than 2 weeks, prior to meeting.

# EXTERNAL Events

## N.P.D. COLLOQUIUM

H.8. AERE HARWELL - 1530 hrs

1 Feb: Dr J A Cookson/N.P.D.  
'Progress on Proton  
Micro-Beam'.  
15 Feb: Prof J Walker/Birmingham  
'Current Research Programme  
at the Birmingham Radiation  
Centre'.

## THEO.PHYS.SEMINARS

BLDG 8.9 AERE HARWELL - 1400 hrs

31 Jan: Dr G Rees/Plessey  
'Theoretical Engineering  
of Junction Devices'.

## PART.PHYS.MEETINGS.

WEST SEMINAR RM:

BIRMINGHAM UNIV. - 1615 hrs  
2 Feb: Dr R Websdale/Imperial  
'Results of Dilepton  
Production from the Goliath  
Spectrometer'.  
9 Feb: Prof. J C Polkinghorne/  
Cambridge  
'Calorimeter Triggers for  
Large P<sub>T</sub>'.

## SCHUSTER COLLOQUIA

BRAGG.L.TH. SCHUSTER LAB.

MANCHESTER - 1615 hrs

14 Feb: Prof A Leggett/Sussex  
'Is Schrodingers Cat Dead?'.

## PHYS.DEPT. COLLOQUIA-READING - 1700hrs

5 Feb: Dr J F Angress/Westfield Col.

'The Lattice Dynamics of Far  
Infra-red Properties of  
Alkali Halide Alloys'.

12 Feb: R M Holmes/Reading.  
'The Angular Distribution  
of Photo-electrons from  
Diatomc Molecules using  
Synchrotron Radiation'.

15 Feb: Dr W Rosenblum/Univ.of Alabama  
'Examination of the Human  
Visual System'.

Note: This lecture starts  
at 1630 hrs.

## HEP SEMINARS

CAVENDISH LAB.CAMBRIDGE - 1500 hrs

31 Jan: Prof J C Polkinghorne/DAMTP  
(1630 hrs)  
'Dimensional Counting'.

14 Feb: Dr A M Segar/Oxford  
Particle Correlations as seen  
in the ISR Solenoid  
Experiment.

## HEP SEMINARS

DAMTP-CAMBRIDGE - 1500 hrs

2 Feb: I G Halliday/I.C.  
'High-energy Nuclear  
Scattering'.

9 Feb: J Schwarz/Caltech.  
'Recent Developments in  
Supersymmetry'.

## THEOR.PHYS. SEMINARS

Q.M.C. - 1615 hrs

5 Feb: Dr L Landua/Bedford Col  
Critical Geometries in  
Classical Statistical  
Mechanics.

12 Feb: Dr E J Hinch/Cambridge  
'Mechanical Models of Dilute  
Polymer Solutions in Strong  
Flows'.

## PART.THEORY SEMINAR

N.PHYS. BLDG. OXFORD

2 Feb: R L Jaffe/Oxford  
1430hrs 'Quark Model Eigenstates  
and Low Energy Scattering'.

5 Feb: W Zakrzewski/CERN  
1000hrs 'Applications of Instantons'

9 Feb: K-T Chao/Oxford  
1430hrs 'Meson Spectrum from Bethi  
Saltpeper Equation'

## THEO. & HEP SEMINARS

L.TH.C. SOUTHAMPTON - 1430 hrs

2 Feb: Prof M Vaughn/Southampton  
'Grand Unified Gauge Theories'.

8 Feb. Prof J Schwarz/Cal Tech &  
Ecole Normale.  
'Recent Developments in  
Supersymmetry'.

## Training

### COURSES

LOUGHBOROUGH UNIVERSITY

The Centre for Extension Studies.  
"Control Engineering in Material  
Processing" (1 week) - Easter & May  
1979.

"Evaluation of Use of Small Business  
Computers" - 25-28 March.

"Disposal of Chemical Wastes"

27-30 March.

"Design of Microprocessor Systems for  
Control Applications" - 28-30 March.

"Design Considerations in Joining  
& Fastening" - 4-6 April.

### UNIVERSITY OF SALFORD

"Oil Hydraulic Circuits and  
Components" - 2-6 April.

"Noise Measurement & Control"  
5 April.

### READING COLLEGE OF TECHNOLOGY

"An Introduction to Materials Handling  
5 meetings on Mon. evening  
(1900-2100 hrs) from 26 Feb-26 March.

### CONFERENCE

IEE. "Recent Advances in HF.  
Communication Systems Techniques  
27-28 Feb.

Further details of courses and  
conference can be obtained from  
Training Section R20. Ext 6285/266.

## Film Badge Notice

The next film badge issue is  
Mon. 29 Jan. It is Period 2.  
Colour Strip RED. Please make  
sure you are wearing the correct  
badge, and all old ones returned.  
Anyone requiring a new holder please  
contact Mrs J Coates Building R2.  
Ext. 430.

Quote from a conference on Social  
implications of Microprocessors  
"If work were a good thing, the  
rich would have found a way of  
keeping it to themselves".



# Miracles Take a Little Longer

Every month for the past 7 months, three container loads of scientific equipment have been despatched from the Rutherford Laboratory to DESY for the Jade and Tasso experiments. In addition a Muon Filter and the Jade pedestal have also been shipped to Hamburg - a total of 1300 tons. The logistics and problems associated with this "simple" operation, their complexity and frustration quotient defy belief. This is the task for which the responsibility is shared by the Physics Apparatus Group and Stores (Receipts and Despatches).

## Facts and Figures

Each container has a capacity of 1,720 cu ft and fully laden weighs approximately 8 tons. The schedule allows 10 days only for the round trip from the Laboratory, to Hamburg, via Hull or Harwich and back - this to make optimum use of each container.

Tasso has had delivery of 300 tons of Radiation wall requiring 35, 12 metre vehicles each carrying 20 tons, and over 4000 items of equipment, including 96 fragile light guides.

Jade required a Muon Filter weighing 840 tons, which needed 60, 20 ton vehicles to transport it. This was made in Reading, taken to Oldham for filling with a concrete/steel amalgam, then re-loaded for shipment from Hull by ferry to Hamburg. The shipment of the 160 ton pedestal for Jade was also managed by the Laboratory. Together with over 600 drift chambers 11ft and 16ft long this brings the total of items exported to Jade alone, up to the 5000 in all mark.

## Frustrations

The keeping to correct delivery dates for these essential supplies is crucial to the commissioning of the DESY experiments, and the difficulties of keeping to schedule a major problem.

The Time-scale for delivery is always tight, delivery dates requested by DESY can be variable, the diversity of vehicles needed can cause complications, many specialised types of packing can suddenly become unobtainable, shipping schedules change. Strikes, go slows, and the vagaries of weather, dockers, and lorry drivers do not enhance the chances of smooth running for the operation.

Never-the-less, like the U.S. Mails, the deliveries always get through.

## Further Findings

Much has been learned about transporting for experimenters, - that they are hard task masters, but the rewards (in ale) can be high, if you're in the right place at the right time. It is also now known that long distance drivers do not change wheels late on Sunday nights, but that PAG staff do.

## Restaurant Results

At the beginning of November a questionnaire about the Restaurant services was circulated to each member of the Laboratory Staff, MRC and NRPB.

Approximately 1400 copies were despatched and 405 forms returned. The answers have been collated and analysed and the following is a summary.

Out of the 405 forms returned, 73 people did not use the restaurant. The main reason given for the majority of non users was that they ate their main meal in the evening. 174 people were daily users and 158 occasional users. This meant that less than half the regular daily users actually participated in the survey.

Just over half the users spend between 50p-£1, the others tried to spend under 50p and only very few people spent over £1. Approximately half the users regularly eat two courses, very few eat three. Of those who only took one dish the most popular item was the main course - and a rather surprising number take soup only!

The consensus of opinion was that the quality and price was reasonable and most users were happy with the present portion size. More snack type meals were requested as these seem to be popular, but the majority of people who answered the question on choice of meals were content with the type of food already served.

Remarks regarding improvements in the service included requests for a

faster tray return, that trays, plates and cutlery be cleaner, that the published menu be accurate and a larger supply of condiments be available. It was also apparent that weekend meals were not required.

The answers to the question regarding suggestions for different dishes produced few ideas the main request being for one cheap dish every day. A better choice of salads, improved vegetables, better quality soup and 'ploughman's' type lunches were also requested. A few people suggested plain food without 'fancy' titles, whilst others wanted more continental type dishes.

There was very little response to the question regarding any improvements in the Coffee Lounges and shop except that the coffee in R22 should be of better quality both Coffee Lounges should be made non smoking areas! (A minority request!)

Some of the suggestions have already been adopted and the new caterers have a better idea of future requirements.

## Missing

Oscilloscope type 454A missing from R6. ( $\pi$  13 LCR)

Inv. No. 6977.  
Ser. No. 101241  
Please contact P R Pitts  
Rl. Ext. 6239 6245

## OVERSEAS Visits

P O'Brian, D Holland & B J Gray to DESY from 29 Jan - 9 Feb for installation of JADE.  
H Hadley & R J Rice to Wuppertal from 29 Jan - 30 Jan, to discuss collaboration on Spacelab experiments.  
P J Litchfield, G Ionnidis & J Wright from 29 Jan - 1 Feb for collaboration meeting on RMS.  
H G V Hawthorne to CERN from 29 Jan - 9 Feb. for installation work on Proposal 202.  
C Brankin to CERN from 29 Jan - 1 Feb for collaboration meeting.  
J A G Morris & R Maybury to CERN from 29 Jan - 2 Feb. to work on NALL.  
A McPherson to CERN from 30 Jan - 2 Feb. for EHS Users meeting.  
B W Edwards & R W Newport to CERN 31 Jan - 2 Feb. for EHS Users meeting.  
L C W Hobbs to Paris from 1 Feb - 2 Feb. to attend ILL Programme meeting.  
D H Saxon to DESY from 4 - 9 Feb. for TASSO Installation work.  
J Hoskins & G Kilbee to DESY from 5 - 23 Feb to service Hybrid Readout on TASSO.  
W G Williams & T J L Jones to ILL 6 - 12 Feb to carry out collimation measurements.

## Sales to Employees

Sales of scrap metal/plastic as set out in RLN 12/73 will be made on 2 and 16 February at the scrap compound, rear of R40 from 1200 - 1230 hrs.



## Departed Colleagues

We regret to announce the early retirement of Colin Balmer due to ill health.

Colin joined us in February 1961 as a craftsman electrician and has worked for Nimrod Division for most of his years with the Rutherford Laboratory.

Well respected, and a popular member of his group, he is very much missed by his colleagues.

Now, though not with us, he is still of us, and is glad to entertain any friends who would care to call on him.

On Friday 22nd December the Laboratory said goodbye to Sue Thomson who has worked here since 1968. She has had several posts in the Engineering and Nimrod Divisions support offices and finished her career at the Laboratory in the Wages Section.

Mr Sissons presented her with some silver-plated animal ornaments thanking her for her able and conscientious work over the past years. We wish Sue, who has made many friends at the Laboratory, all the very best for the future in her new home down in the West Country.



Sue wishes to express her gratitude to all her friends for the beautiful leaving present, and her disappointment at not being able to see everyone personally before she left.

To all her colleagues she sends her best wishes and thanks.



Last week saw the retirement of Mr Albert (Tubby) Leach who has worked at the Rutherford Laboratory for the past 17 years. At his retirement ceremony on Thursday 18 January he was presented with a Digital Clock by David Gray, who thanked him for his years of service, and wished him on behalf of all his friends and colleagues a long and happy retirement.

In his younger days 'Tubby' was an accomplished sportsman playing Cricket for Oxford and Football for Oxford City.

He remains a dedicated football fanatic, and will now be able to devote his time, wholeheartedly to this pursuit. To quote one of his daughters - 'Just put, he's Football Mad! Nice one Tubby!'

## New Year's Honours

We should like to offer our congratulations to Sir Brian Flowers on his elevation to the Peerage, and to the following Members of the Science Research Council who were also awarded Honours in the New Year List -

- CB Dr M W Holgate  
Member of Council and the Science Board.
- CBE Professor A Ashmore  
Director, Daresbury Laboratory
- R A Huskisson  
Chairman, Marine Technology Management Committee
- Dr A J Kennedy  
Chairman of Rutherford Laboratory Establishment Committee
- OBE J J Beattie  
Head of Science Division
- BEM G T Gutsell  
Craftsman Charge Hand at the Royal Greenwich Observatory.

## Rutherford Wives

There will be a COFFEE MORNING at The Cosener's House in Abingdon from 10.30 am on

Tuesday 6 February

All wives are welcome - especially any new visitors - and young children may come too! Future dates for the coffee mornings are

Wednesday 14 March

Tuesday 10 April

For further information, please phone Suzanne Litchfield (Abingdon 21310) or Gillian Litt (Abingdon 26009).

## Horticultural Society

The Society's ANNUAL GENERAL MEETING will be held on Wednesday 7 February at 1230 hrs in Room 1 of the Social Club. Members are urged to attend.

## Folk Club

The next meeting of the Club is on Friday Feb 2nd starting at 8pm prompt in the Coffee Lounge of R22 (the Restaurant). The main guests will be Telephone Bill and the Smooth Operators. Tickets are available in advance at £1.00 or on the door at £1.20. Everybody is welcome to attend.

Tickets from

Steve Halliday R25 Room 1.23 Ext 492  
Steve Cox R25 Room 2.34 Ext 407  
John Ellis R2 Room 3.04 Ext 6689  
George Pullinger Ptkbn 4 Ext 6661

## Missing

Voltage Frequency Convertor, H.P. DYMEC. Serial no. 857-221113, borrowed from rack in Experimental Hall 3 recently.

The borrower may retain the Convertor, but please advise the inventory holder C H Booth R51, Ext 6688/6645 or Admin. Ext. 6205.

## USERS of TELETYPE MACHINES.

On a recent service visit the engineers were unable to locate items with the following serial numbers:-

461465	515202	310563
349012	461700	344093
307319	375759	182149
304824	504193	97313
121836	515149	515276
99785	105320	428867
228010	0034	354350



Deadline for Insertions

# BULLETIN

1000 hrs Tuesday 6 February

Editor: Jean Banford

Room 23, Building R20  
Rutherford Laboratory  
Chilton Didcot Oxon OX11 0QX  
Abingdon (0235) 21900 Ext 484

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