



Rutherford
Laboratory

15-29 April 1974

bulletin

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R20 LOSES AN 'ASSET'

Sandy and Ernie (with an appropriate background - figuratively speaking)

Joined - October 1962: left - March 1974: location - R20: occupation - figures. That summarizes Ernie Newbold's life at the Laboratory during the last eleven and a half years. Ernie is obviously a Council man, he came to the Lab from the Wallingford Rural District Council, he joined the Science Research Council and now he has gone to work for NERC, the National Environment Council at Crowmarsh - but still on figures. During his time at the Lab he has been in Bill Paying, Wages, Claims, and Inventory and Assets. His new job with NERC is with a small group of nine controlling superannuation for three thousand people. His departure breaks up a family participation at the Lab as both his wife and son John are members of the Technical Services Group in the Engineering Department.



Sandy Miller, Head of Finance and Accounts Group on behalf of Ernie's many friends and colleagues presented him with an expensive version of a well known pen. Sandy remarked that Ernie had tidily left on the last day of the financial year. He was well known to a large number of employees - in particular he was thinking of Senior Secretaries who had received one of Ernie's little notes concerning assets!

One group in particular will miss his guiding hand, the Christian Fellowship in which he has for long been a prominent committee member and treasurer. We wish him good fortune in his new post and continuing success in his Christian activities at the Wallingford Pentecostal Church.

RUTHERFORD LABORATORY LECTURE

'The Work of the Select Committee on Science and Technology' - the subject of the next lecture in the Rutherford Laboratory series should prove of interest to many members of staff. The talk, at 15.15 on Wednesday, 17 April, in the Lecture Theatre is to be given by Mr A J. Hastings, Clerk to the Committee. Mr Hastings has kindly supplied the following summary:-

Apart from describing how the Committee works, the talk will cover the role of Select Committees in general and the part they can and do play in assisting the House of Commons to carry out its functions. Some tentative guesses will also be made on possible future developments.

For your diary: The next lecture on Thursday 23 May will be 'home spun' as it is being given by Dr Manning who will ask 'What's happening in High Energy Physics and is it exciting'.

ACTION THIS DAY

Two weeks ago the microscope was removed from a Pye Travelling Microscope situated in the $\pi 8$ beam line. Will anyone having this in his possession please return it immediately to the $\pi 8$ Control Room or the Imperial College Group, Room G55, Building R1.

POSTAL ARRANGEMENTS AT EASTER

The last delivery of mail to the Post Office at Didcot on Thursday 11 April will leave the Post Room at the Atlas Laboratory at 11.00 hours. Mail arriving in the Post Room after this time will not be taken to the Post Office until Tuesday 16 April.

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INTERNAL EVENTS

RUTHERFORD LABORATORY LECTURE
Wednesday 17 April
15.15
Lecture Theatre

The Work of the Select Committee on Science and Technology (see page 1 for summary)

Mr A C Hastings/Clerk to the Committee

NBRU MEETING
Thursday 18 April
10.30 - 18.00
Lecture Theatre

'Neutrons and Biology' - a one day introduction for non-specialists arranged under the auspices of The British Biophysical Society; The Neutron Scattering Group of the Institute of Physics, the Chemical Society and the Neutron Beam Research Unit. The main objective is to introduce the technique of thermal neutron scattering to biological research workers unfamiliar with the use of neutrons in their field. There will be plenty of seats available in the Lecture Theatre for members of staff wishing to attend any particular lecture.

At the time of going to press the programme, following coffee at 10.30, is as follows:-

SESSION 1 Neutron Scattering Methods. (Chairman: Professor D C Phillips, FRS/Oxford)

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|-------|--|-----------------------------|
| 11.00 | Opening remarks | |
| 11.05 | General introduction to neutron scattering: comparison with X-ray scattering and with spectroscopic methods. | <i>B T M Willis/Harwell</i> |
| 11.50 | Problems in biology which might be examined with neutrons. | <i>A Miller/Oxford</i> |
| 12.20 | Instruments at Grenoble and Harwell for biological studies. | <i>G C Stirling/Chilton</i> |
| 12.50 | Discussion | |
| 13.00 | Lunch | |

SESSION 2 Past Achievements and Future Prospects (Chairman: Dr B Jacrot/Grenoble)

- | | | |
|-------|--|------------------------------|
| 14.00 | Neutron crystallography of vitamin B ₁₂ and other compounds of biological interest. | <i>D C Hodgkin/Oxford</i> |
| 14.40 | Density profiles of membranes and membrane lipids | <i>D L Worcester/Harwell</i> |
| 15.20 | Lipid bilayers and carboxy-myoglobin: recent work at Brookhaven National Laboratory | <i>B P Schoenborn/BNL</i> |
| 15.50 | Future prospects followed by General Discussion | <i>B Jacrot/Grenoble</i> |
| 16.30 | Tea and visits to Harwell reactors | |
| 18.00 | Close of meeting | |

Please note - Visits to Harwell reactors for visitors only. Timings of lectures are subject to alteration in particular the 15.50 and 16.30 timings.

NIMROD LECTURE SERIES
Monday 22 April
11.30
Lecture Theatre

ω -p Interference and Other Results from $\pi^-p \rightarrow \pi^- \pi^+ n$ at 17.2 GeV/c

Dr G Grayor/CERN

NIMROD LECTURE SERIES
Monday 29 April
11.30
Lecture Theatre

An Introduction for Gauge Theories for Experimentalists. Lecture 1, in a series

Dr Illiopoulos/Orsay

Lectures 2 3 & 4 by Dr Illiopoulos will be given on Tuesday 30 April at 15.00 hours, Wednesday 1 May at 15.00 hours and Friday 3 May at 11.00 hours - in the Lecture Theatre.

NIMROD SCHEDULE

Cycle 1 18.4.74 - 9.5.74

Commissioning of Nimrod and Beam Lines.

HORTICULTURAL SOCIETY - SPRING SHOW - The Horticultural Society is staging a Spring Show on Friday 26 April. It will be held in the upstairs coffee lounge of the Social Club from 12.00 - 13.30 hours. Copies of the schedule showing prizes and awards, regulations, classes and entry forms are now available from the Secretary, Roy Brabben, Building R20. There are 21 classes including 5 for daffodils, 2 for narcissi, 3 for tulips plus other classes for wallflowers, polyanthus, mixed garden flowers, flowering shrubs, pot plants, flower arrangements etc. A cash prize of £2, will be awarded to the competitor gaining the highest number of points in classes 1-21, £1 for second highest and 50p for third highest. There is a fee of 3p per entry, and entries should be submitted as soon as possible. A suitable endorsed show card will be presented to each entry gaining a 1st, 2nd or 3rd place.

The main show will be held in September and this year there is to be a new award. Sid Maskell has presented the Society with a cup which is to be awarded for the heaviest marrow!

VISITS - so far arrangements are fixed for visits to Wisley returning via Guildford Cathedral on 30 May, and Compton Acres and Poole Pottery on 27 June. Please inform Val Goodwin, Ext 6256/6298 as soon as possible if you wish to book a seat on the coach for either or both of these trips. It is hoped to arrange some evening outings and details will be announced in due course. Suggestions are welcomed - to Val!

SEVEN-A-SIDE SOCCER LEAGUE Fixtures for two weeks beginning 15 April.

Friday	19 April	Bldg 353	v	Rovers
Monday	22 April	RHG	v	Apprentices
Tuesday	23 April	R25	v	Trans.
Thursday	25 April	Bldg 353	v	CA
Friday	26 April	Admin	v	G.O

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FROM THE EDITORS NOTE BOOK

For some time I have thought that it would be useful to introduce a more informal type of news presentation in the form of a column. It would not necessarily appear each issue, space limitations alone would prevent that. Its success would depend largely on an adequate supply of news from people (not only staff) working here and contributions from readers outside the Lab. The column would not replace the normal presentation but inclusion of items of interest in the column must be at the discretion and decision of the Editor.

Quest, the SRC House Journal has a new Editor, Miss Carol Rivers, who hopes to spend a day at the Lab very soon. Carol comes to her job with a lot of experience on journal work, latterly at the Home Office. She joined the SRC Press Office on 1 March and hopes to publish the first issue of Quest for 1974 towards the end of this month. Carol tells me she is looking forward to the challenge but is very aware of the problems of producing a journal for a readership with such a wide range of interests, a problem not always appreciated by the staff.

As is well known the RL has for many years been concerned with help for schools in the area and to establish collaboration in projects of mutual interest. It was therefore with some interest that I read in the Wireless World for March that they had started a new venture called 'Project'. The idea originated with the belief that the future of electronics lies with the young, and secondly that the Wireless World has in the past provided a source of information used by schools, colleges, universities, industry etc, unobtainable elsewhere. 'Project' is intended as a point of contact between

industry and educationists with an electronics interest and the Wireless World welcome news, articles, reports and letters for possible use in the journal. The first article in 'Project' is entitled "The value of school projects", by Professor Eric Laithwaite who, as many readers will remember, gave such an interesting and amusing lecture in the Rutherford Laboratory Lecture Series last November.

Many people have contacted me about film shows. Their popularity is undoubted and I am assured of their value to members of staff. Even those films with no scientific or technical content have had the effect of turning a black morning into a sunny afternoon. So message received - I hope to start planning a programme for next season and booking films before too long.

A number of familiar faces have vanished from the Lab recently. Barry Scott from C & A Division has gone to Glasgow University to head a project using computer methods by display as an aid to the training of medical students. Richard Bailey, who came to the Lab in January 1970 and has been occupied with cryogenics left on 29 March. He is only going north as far as Oxford to work on a superconducting alternator programme at the Department of Engineering Science, Parks Road. Richard would like to thank colleagues at the Lab with whom he worked for a pleasant and interesting four years. I hope to keep in touch with Richard - and his experiments - more anon.

Finally, a plea for more information for use in the CERN Courier, Quest and the Bulletin (not forgetting the 'column') and a thank you. Bulletin No. 6 contained an item on paper economy; thank you for your criticisms, both constructive and destructive.

RUTHERFORD LABORATORY BULLETIN

Published by the Scientific Administration Group

Editor: H F NORRIS

Deadline
for
Insertions

GENERAL & SOCIAL NEWS
Tuesday 1600

INTERNAL & EXTERNAL EVENTS
Wednesday 1200

Room 42 Building R20
Rutherford Laboratory
Chilton Didcot Berks
Abingdon 1900 Ext 484

POSTAL ADDRESS Although Chilton came under the administrative area of Oxfordshire as from 1 April 1974 the postal address will not be changed from Berkshire until 1 July 1974. The address of the Laboratory will then be -

Rutherford Laboratory, Chilton, Didcot, Oxon, OX11 0QX

MISSING EQUIPMENT The following item of equipment has been reported missing from the Engineering Test Lab, R25:-

An air driven hydraulic pressurising unit consisting of two Airhydropumps mounted on a wooden structure complete with two 10 inch diameter pressure gauges.

Will anyone with information on the present whereabouts of this item please contact R M Luckock, Ext 6243.

PERIODICAL SAFETY TEST OF PORTABLE ELECTRICAL EQUIPMENT The test carried out during March 1974 has now been completed. The current marker colour is YELLOW and is marked 'Do not use after July 1974.

Portable electrical equipment that is marked otherwise, or has no marker, should be considered as unsafe and MUST NOT BE USED.

All such items should be returned if possible to Electrical Services Section Building R18. Alternatively ring A Hipwell ext 573.

FOUND Parker pen found in 'ELECTRIC' Room, R1. Owner please contact P Nichols, Bld. R1, Ext. 6228.

FILM BADGE NOTICE It is Period 4 Colour Strip - GREEN for Bx films.

Fast neutron packs have now been issued as Nimrod is due to start shortly. These packs should be worn for the remainder of Period 4 and Period 5.

Bx films are due to be changed on Monday 22 April.

SUMMER INSTITUTE Details to hand on a Summer Institute on Particle Physics, 29 July - 10 August 1974, at SLAC, USA. The format for the Institute will be two separate sessions - an 8 day school on Strong Interactions followed by a 3-day topical conference. Further information from the Editor.

OVERSEAS VISITS The Director, to CERN, 16-17 April, to attend meeting of Nuclear Physics Research Committee.
Dr M R Jane to the USA, 17 April - 2 May, to attend Washington APS meeting, Boston Meson Spectroscopy Conference and to visit BNL and NAL.
Professor N H Lipman, to the USA, 17 April - 10 May, to attend Washington APS meeting, the 4th International Conference on Neutrino Physics at Philadelphia and to visit BNL, NAL, SLAC and the University of Hawaii.
Dr S N Tovey, to the USA, 20 April - 14 May, to attend Washington APS meeting and the Boston Meson Spectroscopy Conference.
Mr G T J Arnison, to CERN, 22 April - 22 May, for data taking on Experiment S124.
Dr D B Thomas, to CERN, 23 - 26 April, to attend Conference, 'Technology Arising from HEP'.
Messrs D A Gray, N M King, M H R Donald and A R Mortimer, to the USA, 27 April - 16 May, to attend IXth International Conference on High Energy Accelerators at SLAC and to visit various national laboratories.
Dr D B Thomas, to the USA, 28 April - 11 May, to also attend SLAC conference and to visit NAL, LBL and BNL.
Dr J R J Bennet, to the USA, 28 April - 16 May, to also attend SLAC conference and for discussions on Storage Rings.
Mr J F MacEwan, to Montreux, 29 April - 2 May, to attend conference on Computer Networks.

SOCIAL NEWS

CHESS NEWS In what proved to be a most enjoyable evening a Rutherford and Atlas team proved too strong for their opponents, Wantage, winning by 8 to 4. The match, played on Wednesday 3 April resulted in some fine performances, in particular from Peter Hemmings on Board 1 and on the lower Boards, from Dick Apsey, Reg Sidlow and Robin Wastle, Roy Culliford and Dave Gibbings were both in a winning mood but made fatal mistakes late in their games. Peter Craske - well, - least said the better. The results table below says it all.

BOARD

1	P Hemmings	1	-	A Jones	0
2	M Elder	$\frac{1}{2}$	-	J Wood	$\frac{1}{2}$
3	P Craske	0	-	N Hepworth	1
4	R Maybury	$\frac{1}{2}$	-	R Davidge	$\frac{1}{2}$
5	D R Culliford	0	-	J Cliffe	1
6	B Whittaker	1	-	C Marns	0
7	D Gibbings	0	-	J Leslie	1
8	J Godfrey	1	-	T Atkinson	1
9	R Hambleton	1	-	B Tozer	0
10	R Apsey	1	1	L Whelpdale	0
11	R Sidlow	1	-	V Cox	0
12	R Wastle	1	-	R Holman	0

CHRISTIAN FELLOWSHIP 19 April All are welcome to attend a Bible Study on Pauls letter to the Ephesians, Chapter 4, led by Ben Kingdon of Building R20. The meeting commences at 12.30 in the Conference Room, Building R12.

26 April John Thomas of Building R1 will be chairing the fellowship in a quiz. All are welcome to come along to the R12 Conference Room at 12.30.

MODEL RAILWAY CLUB The AGM of the Model Railway Club will be held in the Recreation Hut at 12.45 on Monday 22 April. New members are welcomed. We hope to publish more news in Bulletin No. 9, after the AGM. Enquiries to Ray Roberts, Ext.254, Building R25.

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