



Rutherford Laboratory

General News

COLLEGE PRIZES Congratulations to David Holland (Nimrod Mechanical Engineering Group) who has been awarded the Pressed Steel Fisher Prize for the best all-round student on the Mechanical Engineering Technicians Course at the North Berkshire College of Further Education, and to David Wood (Finance and Accounts Group) who has been awarded the Dene Bookshop Prize for his performance during the ONC Business Studies Course at the same College.

INTERESTING CONVERSION Some years ago Mr W Spinks who is in charge of the Labs Photographic Section, wrote a book entitled 'Vacuum Technology'. We were interested to learn that the Royal National Institute for the Blind have obtained permission to record Vacuum Technology as a Talking Book for the Blind.

It is Period I3. Colour Strip - GREEN for βγ films. Due to the Nimrod Shutdown there is no fast neutron issue. Please ensure that all old dosimeters are returned.

INDUCTION COURSES Two induction courses will be held in the Lecture Theatre on 8-9 Dec and IO-II Dec. As a result the showing times for films has been changed and the Record Society concert cancelled. See 'Internal Events' for details of film times and the extra film shows on Tuesday.

NATIONAL SAVINGS CERTIFICATES - WEEKLY CYCLE ENDING II 12 70 Certificates can be collected from the Cash Office, R20, from 14 12 70 onwards. New members wishing to join the scheme can obtain enrolment forms from the Cash Office. Completed forms must be returned not later than II 12 70.

Monthly Cycle ended 2 11 70 - Members who have not yet collected their certificates are requested to do so as soon as possible.

OVERSEAS VISITS - The Director, to CERN for one day, 9 Dec, to attend meeting of the Nuclear Physics Research Committee.

UNDELIVERABLE MAIL for Mr O J H Davies (from the Edinburgh Regional Computing Centre) and V H Rajeraman. Enquiries to the

Internal Events

Mon, 7 Dec, 11.30 a.m., Lecture Theatre

Nimrod Lecture

Series

Dr K Moriarty (Imp. Coll.)

The Inclusion of Spin in a Phenomenological Venezeano Model with Applications to Three Particle Production.

Mon. 7 Dec. 2.15 p.m.. Lecture Theatre

Safety Training

Mechanical Handling Safety Training - Slinging (See last weeks Bulletin for details)

Tues, 8 Dec, 1.15 p.m. & 2.0 p.m. Lecture

Theatre

Special Film Shows

"Granny Gets The Point" a $27\,$ minute colour film designed to put over the basic facts of decimal currency.

Wed. 9 Dec. 10.30 a.m. -4.0 p.m. RI2 Conf. Rm.

Demonstration by Nuclear Measurements of a working system of their SEN Camac range which is of new and original design, together with a Nova Computer and Tektronics display unit. A number of pre-production units will be on display. Further information from H F Norris Ext. 484.

Wed, 9 Dec, 11 a.m., Conf. Rm, RI

HEP Disc Grp

Dr G Gopal (RHEL)

Partial Wave Analysis of Single Pion Production.

Wed, 9 Dec, 12.30 p.m. Thurs, 10 Dec, 1.15 p.m. Lecture Theatre

FILM Show

Enemy 39 a 26 minute, colour film.

PLEASE NOTE CHANGE OF SHOWING TIMES FOR THIS WEEK

In this film corrosion problems at all stages of manufacturing are extensively covered and their elimination discussed.

Mon, 14 Dec, 11.30 a.m. Lecture Theatre

Nimrod Lecture Series

Prof. P. Murphy (Manchester)

K° + π + π π°

External Events

Mon, 7 Dec, 4.15 p.m., Queen Mary College, Ldn.

Mon, 7 Dec, 5 p.m., Univ. of Bristol

Tues, 8 Dec, 2.30 p.m., Daresbury Laboratory

Tues, 8 Dec, 7.30 p.m. Oxford Coll. of Tech.

Wed, 9 Dec, 2.30 p.m., Univ. of Manchester

Thurs, 10 Dec, 8.30 p.m., Nucl. Phys. Lab, Oxford

EVENT AT AERE

Thurs, 10 Dec, 3.30 p.m. Conf. Rm, H.8

Theor. Phys Seminar

Phys & Geo-Phys

Lecture Series

British Computer Society Branch Mtg.

Theor. Phys. Seminar

Seminar in Elemt. Part Phys.

Nucl. Phys. Colloq.

Prof. A L Fetter (Stanford & Cambridge)

Prof. F C Frank (Univ. of Bristol)

D Colley (Birmingham)

Q H Gee (ICL)

Prof P G Burke (Belfast)

Dr. A J Herz (CERN)

Speaker to be announced

Superfluid Vortices

Isastasy and Crustal Forces

Decay Properties of Q and L Mesons Produced in K p Interactions

Telephone Directories by Computer

The Calculation of Atomic Properties

A New Measurement of the Λ Magnetic Moment

Physics in Bologna: The Bologna/Harwell Life Time Experiment

Social News

CHRISTIAN FELLOWSHIP $\,$ Friday, II December, 12.30 p.m. RI2 Conf. Rm. Everyone welcome to a prayer meeting led by Ben Kingdon.

AERE HORTICULTURAL SOCIETY Another evening with Mr J Burras, the Superintendant of the Oxford Botanic Gardens. He will be giving a lecture with slides entitled "Some Famous British Gardens". The date, Tuesday I5 December, 7.15 p.m. for 7.30 p.m. start. Tickets 3/- including refreshments obtainable from H F Norris, Bldg. 20 Ext. 484 shortly.

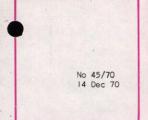
RECORD SOCIETY Due to heavy commitments in the Lecture Theatre it will not be possible to provide time for the Record Society Concert this week. The organising committee is in need of new members so please ring the Editor if you are interested in helping; the commitments are small - normally one meeting a month and the occasional presentation of a programme. More records are needed so if you have a good selection and are willing to loan the occasional record please contact the Editor.

AERE SIX-A-SIDE SOCCER TOURNAMENT In the final of this competition, played on Tuesday, I December the Lab team beat Bidg. 459 by 2 goals to I. Harry Jarvis and Dave Lucas were the scorers. The man of the match was Bob Blowfield playing as sweeper behind the main defence.

SUNDAY FOOTBALL In the first match on 29 November the Lab team beat Oxford Civil Service 4-0. The next game on 6 December is against a team from Newbury, the S G Rangers.

Rutherford Laboratory 4 12 70

H F NORRIS Ext 484 Scientific Admin. Group Building R20.





Rutherford Laboratory

General News

SCIENTIFIC ADMIN NOTICE - The next issue of the Bulletin will be published on Friday, 18 December and will cover two weeks. Copy for this issue should be sent to the Editor, Building R2O, not later than 12 noon on Wednesday, 16 December.

At a recent meeting, twenty seven suggestions were considered by the Awards Committee and the following awards were approved:-

G McGee) Joint B Holcroft)	NED R43	£30	F Harris	NED	R8	£5
C A Grant	NED R2	£10	R E Johnson	ESD	R48	£3
C A Grant	NED R2	£2	D Wood	NED	R43	£2
N Martindale		£7-10.	A Meeks	NED	R3	£2
N Martindale	ESD RIS		K Swindells		RI8	
W Buxton	NED R2	£7-10.	J Flynn	ESD	R34	£2
T Morgan	ESD R9	£5	A Price) R Blatchford) Joint	EDD	RI2	£2

- It is Period I3. Colour Strip - LIGHT GREEN for βγ films. There is no issue of fast neutron packs due to the Nimrod shutdown. Please check that all old films are returned.

TELEPHONE EXTENSION CHANGES - All computer users - please note that this weekend, the extension number for the Central Computer Reception will be changed from 296 to 360. (no one should forget this new number! Ed)

The new extension number for Outside Manufacturing in R32 is 6382.

FOUND - One fountain pen on the putting green outside the Restaurant. Owner please contact R F Childs, at the Atlas Lab.

CENTRAL COMPUTER - CHRISTMAS SHUTDOWN - The 360/75 Central Computer will be closed between 4.0 p.m. Thursday, 24 December and 8.0 a.m. on Tuesday 29 December.

To ensure that all essential work is completed before the shutdown no jobs will be accepted after 10.0 p.m. on Wednesday, 23 CHRISTMAS SHUTDOWN - The 360/75 Central Computer will be closed between 4.0 p.m. Thursday, 24 December

SRC BURSARIES FOR FULL-TIME STUDY AND SANDWICH COURSES - Attention is drawn to SRC Training Notice TN 13/70 concerning the new SRC Award Scheme which will supersede the Atlas and Rutherford Laboratory Scheme in the Academic year 1971-72. Since the new scheme is organised on an SRC-wide basis the closing date of 15 February 1971 is much earlier than in the past.

Provision has been made for late applications in special cases, but prospective applicants who are in doubt about their intentions should make a provisional application at an early date in the knowledge that the application can be withdrawn or revised later. Existing Award-holders will be transferred to the new conditions (which are generally similar to those of the old scheme but are marginally more generous in matters such as leave, book allowance and payment of student's union fees) with effect from the beginning of the academic year 1971-72.

Application forms and further information are available from Training Section, Building R2O, ext 266/555.

UNDELIVERABLE MAIL UNDELIVERABLE MAIL - A letter has been received from L'Aluminium Francais regarding a letter from someone at the Laboratory which had been passed to them from Messrs Pechiney dated 13 November as well as another letter addressed to Pechiney St Gabain, dated 8 July. Writer, please contact the Bulletin Editor for further information

Internal Events

Mon., 14 Dec., 11.30 am., Lecture Theatre	Nimrod Lecture Series	Prof P Murphy (Manchester)	K° _L + π ⁺ π ⁻ π°
Wed., 16 Dec., 11 am., Conf. Rm., RI	H E P Disc Group	Dr J Storrow (DNPL)	Parity Doublets
Wed., 16 Dec., 12.40 pm., Thurs., 17 Dec., 1.0 pm., Lecture Theatre	Xmas Film Show	The Red Balloon 35 min colour The Warm Coat, $13\frac{1}{2}$ min, colour	

For the last film show in December we are presenting something for everyone. "The Red Balloon", directed by Albert Lamorisse is a classic of the cinema. It was made in the streets of picturesque Menilmontant and tells the story, but without dialogue or commentary, of a little boy who on his way to school "rescues" a balloon caught on a lamp post. It follows him everywhere and they become inseperable playmates. The second film is "The Warm Coat" produced by the USAEC, and is a conservation story of the transplant operation of sea others from Amchitka to Alaskan coves. It is a film that watches the shy, whiskered brighteyed sea other dive and swim with easy grace. Both these films have won many awards.

Thurs., 17 Dec., 3 pm., Lecture Theatre

Staff Meeting

The Director will preside (See RLC 33/70 for details)

Fri., 18 Dec., 11 am., Conf. Rm., R12

Seminar in Computing

John MacEwan Alan Mayhook

The Multisatellite System at RHEL

The next meeting in this series will be on Friday, 15 January in the RI Conference Room. Title, "Electric: Technical Details" by J W Burren

External Events

Mon., 14 Dec., 4.15 pm., Queen Mary Coll. London

Tues, 15 Dec., 2.30 p.m., Daresbury Laboratory Theor Phys Seminar

Lecture Series

Dr M Marinaro (Naples & Q M C)

T Massam (CERN/Bologna)

Renormalisation through Analytic

Continuation

The Splitting of A2

Social News

CHRISTIAN FELLOWSHIP - 12.30 pm., Fri., 18 Dec., Conf Rm., RI2. All welcome. Also, Mon., 21 Dec., at 12.30 in the Lecture Theatre, the annual Laboratory Carol Service.

ABINGDON CHRISTMAS FESTIVAL - Once again you are invited to the Market Place, Abingdon on Thursday I7 December, 7.0 - 8.0 pm., to sing your favourite carols and see the whole Christmas Story enacted by local school childred (and a live donkey!) in a colourful series of torchlight processions and tableaux. Programmes and carol sheets are provided. The singing will be led by the Abingdon Salvation Army Band, and Handbell Ringers from Radley will perform at 6.45 pm. Come and join the throng! (if wet, in the Abbey Hall).

RECORD SOCIETY - 12.30 pm., Tuesday, 15 December, Lecture Theatre

'Big Western Movie Themes' with Geoff Love and his Orchestra.

A stereo recording of some of the most famous Western Movie music played by one of the top light orchestras.

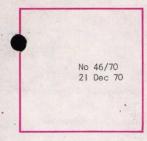
More lists of records are required so that a wide selection of music can be played. For the cautious - the playing weight is now 2 grams which is below the critical weight for record wear.

AERE HORTICULTURAL SOCIETY - Tuesday, 15 December, 7.15 pm., for 7.30 pm., Lecture Theatre. Mr J Burras, the Superintendant of the Oxford Botanic Gardens will give a talk, with colour slides on "Some Famous British Gardens". In addition Konrad Engbers of Hyde Farm Nurseries will be in attendance to answer your questions during the refreshment interval. Tickets which include refreshments, 3/- from H F Norris, R20 Ext 484.

Rutherford Laboratory

H F NORRIS Ext 484
Scientific Admin Group
Building R20

saw





General News

FAREWELL TO ANOTHER PIONEER A few months ago we reported on the retirement of Harry Chandler who had joined AERE in December 1948. Fred Hatton who retired last Wednesday at the age of 69 actually joined AERE six months before Harry, on the longest day, 21 June 1948. Fred began his Public Service career back in August 1941 as an Air Ministry Constable at No. 15 Maintenana Unit, RAF Wroughton. Brian Mellor, Head of General Administration Group who made the presentation to Fred on Wednesday remarked that "it was hard to imagine him as a constable, chasing people around with his wooden stick, as he was much too nice". This, one is sure, is how so many people will remember Fred as in his capacity as storeman he came into contact with not only staff but outside people working here including University members. Here again Brian mentioned that "the Laboratory is judged to a large degree by the service we give to these people and Fred in his job has certainly made a big contribution to this service.

When Fred came to AERE he started work in Hanger 7store and he recalls that the Harwell main stores was in Building 30 at that time moving a few months later to the Romney huts in an area which quickly became known as the Romney Marshes. Building 329 had just been started and he saw the BEPO Chimney being built.

After a year in H7 he moved to the PDS Group Stores which he ran on his own for some years. In September 1961 he joined NIRNS and moved to Building 412 (now known as R12) as one of the only three storemen in the only store at the Laboratory. He recalls that everything was done from this one store, including all receipts and despatches. From 412 he came to R1 a few months before the building was opened to help organise the main store.

For 22 years he has risen at 5.30 a.m., leaving home at 6.30 a.m. each morning (including Saturdays for a number of years). He was the oldest travelling member and the first to start from Ramsbury where he still lives. He recalls that there was three who used to come into Harwell in a small vehicle known as a Tilley. Each day he did a round distance of 53 miles to and from work and in some of the bad winters, arrived home anytime between 12.30 and 1.30 a.m. sometimes having to walk the last few miles in deep snow.

It may come as a surprise to many people that Fred is 69, an age when most people would be glad to put up thear feet and take it easy. This is what Fred intends to do but only until the end of January as he is then starting a new job in Marlborough which is only six miles from his home. It is all the more surprising as Fred has enough hobbies to fill all his leisure hours with his keen interest in gardening, photography and music. In his younger days, as a planist he performed at a number of concerts and gave recitals in large private houses. He admits that his fingers are not quite as supple as they were.

His many friends contributed to a parting gift of a portable radio set as well as a number of other gifts including a water colour portrait. Brian Mellor also read a letter from the Chairman of the SRC in which he expressed his thanks and appreciation of Fred's service, over 29 years in the Public Service.

We are sure his many friends who were absent on Wednesday will join us in wishing this most courteous of men a very happy and successful future.

(Owing to the time factor it has not been possible to include a photograph of the presentation in this issue. It is hoped to print this in the next issue, No. 1/71 - Ed.)

NEWS FROM NIMROD Nimrod ended its operational year in record breaking style. In Cycle 14/14X ending 29 November, 19×10^{17} protons at an average intensity of 2.75 \times 10^{12} protons per pulse, were accelerated in 558.6 hours of good beam time. During the HEP Research portion of this cycle, 507 hours of good beam out of a scheduled 538.7 hours were supplied to users, representing an operating efficiency of 94.1 %.

A peak circulating intensity, averaged over ten consecutive pulses, of 3.13×10^{12} protons per pulse was achieved on 12 November, and represents another new high.

Nimrod Power Supplies - The spare Drive Motor, spare Alternator Stator and second Solid Pole Rotor have now been received on site and will be installed and tested during the December/January Shutdown.

FILM NOTICE It is Period 13. Colour Strip - LIGHT GREEN for By films. Next film change Tuesday. 29 December.

DEPARTURE, CHRISTMAS EVE. There will be a combined departure and buses will leave at 15.10 hours on Thursday, 24 December. Details of departure bays are shown on Notice Boards in the Laboratory.

LOST PROPERTY An umbrella and a sum of money have been found in RI. Would owners please contact Mr J Marshall, RI, Ext. 6693.

LOST On Friday II December, one of the visitors on the Induction Course left a ladies lighter (Ronson) and a packet of cigarettes on one of the tables in the coffee lounge of the restaurant. Would the finder please contact Mr J Marshall, RI, Fxt. 6693.

SCIENTIFIC ADMIN NOTICE This issue of the Bulletin covers two weeks. Copy for the next issue dated 4 January 1971 should be sent to Room 42 R2O not later than 12 noon on Wednesday, 30 December, in writing please. If it is necessary to make any enquiries about the Bulletin during the week after Christmas, please ring Mr F Harden, Ext 6114/484.

CENTRAL COMPUTER - CHRISTMAS SHUTDOWN The 360/75 Central Computer will be closed between 4.0 p.m. Thursday, 24 December and 8 a.m. on Tuesday, 29 December.

To ensure that all essential work is completed before the shutdown no jobs will be accepted after 10.0 a.m. on Wednesday, 23 December.

TELEPHONE EXTENSION CHANGES - REFERENCE BULLETIN No. 45/70

All outside manufacturing numbers in R32 remain the same with the exception of Ext 360 which now becomes Ext 6382. Ext. 360 is of course the new extension number for the Central Computer Reception.

OVERSEAS VISITS Dr I Butterworth will be absent for three months during the period January - March 1971 in order to take up a visiting Professorship at the University of California, USA.

Mr P J Barker, Mr H Wroe and Mr P. Trowbridge, to Liege, 21-23 December to attend an S/68 meeting.

ODI CHWI GALLU SIARAD CYMRAEG? PARLEZ-VOUS FRANCAIS? SPRECHEN SIE DEUTSCHE? UNA JUA KISWAHILI?

The Library is compiling a list of those people in the Laboratory (or their wives and husbands) who are fluent in a foreign language. Anyone who can help, please ring Mrs. Marsh, Ext. 6668.

Internal Events

Mon 4 Jan - Wed 6 Jan Lecture Theatre. Informal Theoretical Physics Meeting. The provisional programme is as follows:-

THE T VOITED TY		
14.00-15.30 16.00-17.30	K Gottfried (CERN) G Ringland (RHEL)	The Nucleus as a Platform for Elementary Particle Experiments. Dips, Bumps and Cuts.
Tues 5 January		
9.45-11.15 11.45-13.15 14.15-15.45 16.15-17-45	J Allaby (CERN) R Eden (Cambridge) T T Wu (DESY) R Roberts (RHEL)	Recent Results in High Energy Scattering. Asymptotic Collisions. The world at Extremely High Energies How is the Pomeron?
Wed 6 January		
9.45-11.15 11.45-13.15 14.15-15.45 16.15-17.45	M Kugler (Weizmann Institute) D Sutherland (Glasgow) H Osborn (Glasgow) A Martin (CERN)	Duality Bumps and Dips in Meson Spectroscopy Deep inelastic Electron Scattering Analyticity and the ππ Interaction.

Social News

CAROL SERVICE - MONDAY 21 DECEMBER, LECTURE THEATRE, 12.30 p.m.

Everyone welcome to the annual Laboratory Carol Service. Come along and enjoy singing your favourite carols to the accompaniment of the guitars of Jimmy Darius and John Newbold and the electric organ of Denis Pepler.

Once again I am privileged as Editor to thank all those who have helped in the production of the Bulletin in 1970. These include the typists who have to decypher my often hurried writing, the Office Service stalwarts Gordon and Bill who always manage to print 850 copies on time even if I am late, and the post ladies who deliver the copies to your 'in' trays.

A Happy Christmas and a Prosperous New Year to all our readers.

Rutherford Laboratory

H F Norris Ext 484 Scientific Admin Group Building R20

JPP