

Rutherford Laboratory Bulletin

No. 35/66
5 Sept 66

General News

POST-GRADUATE COURSE Further to the announcement in last week's Bulletin (No. 34/66) of a post-graduate course of twelve months full-time study in "Cryogenics and its Applications", to be held at Southampton University, commencing in October 1966, information is now to hand on part-time attendance.

Part-time students are offered the following alternatives:-

1. attend part-time, some, or all of the lectures as they wish during 2 days in each week only, (or 3 days to include outside lectures in the Spring term).
2. attend full-time all the lectures and take part in all the course practical work for six months only, without qualifying for the degree of M.Sc. or Diploma (D.U.S.) of the University of Southampton.
3. spread twelve months study over two years to qualify for the M.Sc. or D.U.S.

Further information from H. F. Norris, Building R.20, Ext. 484.

DISPLAY BOARD The board in the Coffee Lounge of the Restaurant is for the display of notices of social and other local activities which may be of interest to Laboratory staff and visitors. As these notices are for the benefit of all concerned it would be appreciated if they were not removed.

RADIATION PROTECTION GROUP NOTICE Please note that the next film period commences Monday, 5th September for -

38 films (Colour Strip - Orange
(Period Number - 10

Please change films PROMPTLY

If films are no longer needed please contact Miss J. A. Towers, Building R.20, Ext. 253/430

MISSING EQUIPMENT Missing in transit from R.24 Stores to Room 1.59, Building R.1 on about 22nd July last:-

1 - Baldwin Solenoid Air Valve. The packet containing this valve is marked with one or more of the following:
"Type V.3/11/12 Coil", 3502, Order No. N 21669 RLQ.

Anyone with information on the present whereabouts of this item is asked to contact Mr. R. J. Prowse, Room 1.59, Building R.1, Ext. 487

OVERSEAS VISITS Dr. D. B. Thomas and Dr. P. R. Williams, to the U.S.A., 3 - 24 September where they will visit Bubble Chamber Groups at various Laboratories.

Dr. H. H. Atkinson, to the U.S.A., on 7th September for approximately three weeks, to attend the Stanford Conference on Instrumentation for HEP and visit other laboratories.

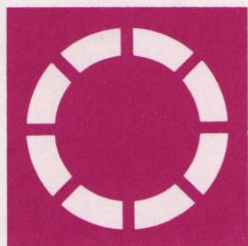
Mr. P. Wilde to the U.S.A. 7 - 14 September, to attend the Stanford Conference and visit Berkeley.

ATTACHMENTS Dr. A. O. L. Atkin, Atlas Laboratory, leaves on 9th September for about one year's attachment to the National Bureau of Standards, Washington, D.C., U.S.A.

Mr. F. R. A. Hopgood, Atlas Laboratory, leaves on 9th September for about one year's attachment to the Carnegie Institute of Technology, Pittsburgh, U.S.A.

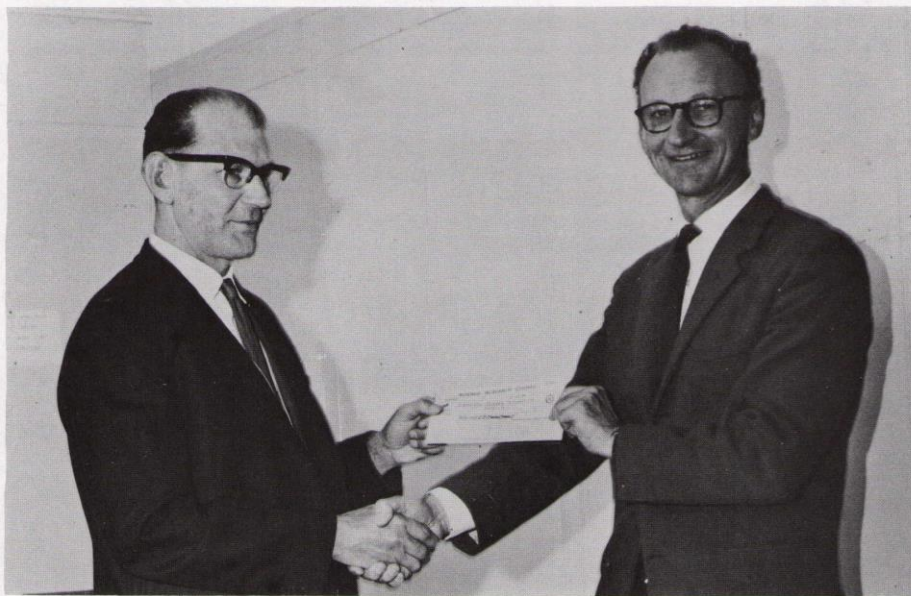
Social News

CHRISTIAN FELLOWSHIP Rev. E. C. Atkins, Vicar of Harwell, "The Significance of the Death of Christ", P.L.A. Conference Room, 12.30 p.m., Thursday 8th September.



Rutherford Laboratory Bulletin

SUPPLEMENT TO BULLETIN 35/66



On 1st September, 1966, under the Rutherford Laboratory Suggestion Awards Scheme, a presentation of £100 was made to Mr. H. V. Parr by Dr. G. H. Stafford, Deputy Director.

Mr. H. V. Parr, General Worker, attached to Central Engineering Group, Chemistry Section, Building R.8 suggested an improved method of polishing scintillator material. To date polishing has been by abrading with emery cloth and polishing powders, a laborious and costly procedure. Mr. Parr's solution to the problem is to apply the surface of the scintillator material to a heated photographic glazing plate. Fusion of scintillator material's surface takes place quickly, resulting in an acceptable finish with a considerable saving in both labour and money.

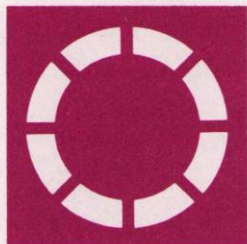
To date the award made to Mr. H. V. Parr is the largest recommended by the Rutherford Laboratory Suggestion Awards Committee.

All will join in the congratulations to Mr. H. V. Parr as voiced by the Deputy Director when making the presentation.

The Awards Scheme has been in operation since March, 1962 resulting in £800 being distributed to approximately 250 successful suggestors.

H. F. Norris, Ext. 484,
Scientific Administration Group,
Building R.20.

Rutherford Laboratory
2nd September, 1966



Rutherford Laboratory Bulletin

No. 36/66
12 Sept. 66

General News

VISITORS A party of German Physicists from the University of Cambridge will visit the Laboratory on Saturday, 17 Sept.

A party of University Engineering Lecturers attending a course at the P.G.E.C., will visit the Laboratory on Thursday, 15 Sept.

MISSING EQUIPMENT. The following library book has been reported missing from C.E.G. Mechanical Services Section, R.32.

"Heating and Air Conditioning of Buildings" by Faber & Kell

Would the borrower or anyone with information on the present whereabouts of this book please contact Mr. R.G. Hockin, Bldg R.32, Ext 6210.

The following item of equipment has been reported missing:

1 - Scintilla Electric Saw - A.E.R.E., No. 12337

Anyone with information on this item is asked to contact Mr. I.L. Watkins, Lab 1-10 Bldg R.1, Ext 6159.

RADIATION PROTECTION NOTICE. Please note that all films should have been changed on 5 Sept. Please check that you are wearing current film badges:

Fast Neutron films and - Colour Strip ORANGE
Beta Gamma films

β films - Period 10 (first two digits of film number)

OVERSEAS VISITS. Dr. G.H. Stafford will be away from the Laboratory from 19 Sept to 18 Nov inclusive, on a lecture tour of Australia and South Africa.

Dr. C.J. Batty, to the U.S.A. and Canada, 11 Sept - 9 Oct; where he will attend the International Conference on Nuclear Physics at Gatlingburg and will visit other Laboratories in the U.S.A. and Canada.

Mr. J.A. Fox, to France and CERN, 11-16 Sept, to attend the International Conference on "High magnetic fields, their production and application" at Grenoble, and to hold discussions at CERN.

Dr. F.M. Russell, to the USA and Canada, 14 Sept for approx. 3 weeks to visit various Laboratories and to attend two Conference.

Internal Events

Mon, 12 Sept
2-5 p.m. Lecture Theatre

Nimrod Users
Meeting

EVENT AT AERE

Tues, 13 Sept
2 pm, Conf.
Rm. Bldg 8.9

Joint Applied
Maths Group
Seminar

Dr. H.O. Pollak
(Bell Telephone)

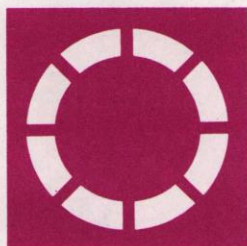
Concentration Problems for
Fourier Transforms

Social News

CHRISTIAN FELLOWSHIP. P.L.A. Conf. Rm, R.12, Thurs, 15 Sept, 12.30 p.m. A meeting for meditation, praise and intercession. All are welcome.

Rutherford Laboratory
9.9.66.

H.F. Norris Ext 484
Scientific Admin Group
Building R.20



Rutherford Laboratory Bulletin

No. 37/66
19 Sept 66

General News

COMMONWEALTH OF AUSTRALIA - QUEEN ELIZABETH II FELLOWSHIPS

Information has been received regarding the Queen Elizabeth II Fellowships up to five of which may be awarded in December 1966. Applicants should have a Ph.D or equivalent qualifications, in one of the physical or biological sciences. Current applications close on 15 October, 1966. Further information from H.F. Norris, Bldg R.20, Ext 484.

MISSING EQUIPMENT. The following item has been reported missing from Lab. 9, Bldg R.1 -

1 - ladies bycycle - AERE NO. L.8

Any person with information on the present whereabouts of this bicycle is asked to contact Mary Owen, R.1, Ext 443.

Missing from Lab. 1, Bldg R.20:

1 large set of socket spanners in blue case.

Will the person who borrowed this item or anyone with information on its present whereabouts, please contact W.B. Marsh, R.20, Ext 365.

OVERSEAS VISITS. Mr. A.J. Holt, to CERN, 19-22 Sept, for discussions on safety in the use of flammable gases and liquids.

Dr. J.T. Hyman, to CERN, 21-24 Sept, to discuss accelerator control systems, external beam monitoring and radiation damage to electronic components.

Dr. R.H. Thomas, Dr. G. Stevenson, and Mr. K.B. Shaw, to CERN, at intervals, between 24 Sept and 15 Dec, approx. to participate in joint shielding experiment.

Machine Schedules

NIMROD PERIOD 2/66 - Cycle 6 (20.9.66. - 11.10.66.)

1. Machine Physics:

Extracted Proton Beam Development
Uranium Yield Experiments

2. High Energy Physics:

Team	Beam	Experiment	
Oxford U.	K4	A measurement of the K_{e2} branching ratio	Data
Birmingham U/ Cambridge U/RHEL	K6	K^+ and π^+ total cross-section measurements	Data
Hydrogen Bubble Chamber Collaboration	K1	K^-p scattering in the Saclay bubble chamber	Data
RHEL/Oxford U.	K7	π^-p polarisation measurements	Data
Imperial College	$\phi 1$	A study of the $\phi \rightarrow e^+ + e^-$ decay	Setting up
AERE/QMC	$\pi 4$	A study of $\Sigma\beta$ decay	Setting up

Internal Events

MOBILE DEMONSTRATION An exhibition of specialised Laboratory Glass-ware and associated electrical equipment will be given by Messrs. Jencons Ltd., of Hemel Hempstead, on Friday, 16 September, from 10 a.m. to 2 p.m. adjacent to Building R.20

EXHIBITION. A display of Electrical Terminals and accessories by Klippon Electricals Ltd., Sheerness, will be held in the Main Conference Room, Bldg R.1, on Thursday, 22 September, from 9.30 a.m. to 5 p.m.

External Events

EXHIBITION. A display of electrical relays and timers by D. Robinson & Co. Ltd., of Camberley will be held at the U.K.A.E.A. Culham Laboratory on Thursday, 22 September.

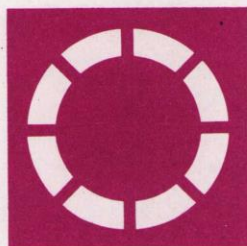
Social News

CHRISTIAN FELLOWSHIP. "Borneo Head-hunter becomes Christian Citizen" A half-hour talk with slides will be given by Dr. W. Lees, Medical Missionary at 12.35 p.m. on Thursday, 22 September, in the Lecture Theatre. A warm welcome is extended to all.

Rutherford Laboratory

16.9.66.

H.F. Norris Ext 484
Scientific Admin Group
Building R.20



Rutherford Laboratory Bulletin

No. 38/66

26 Sep 66

General News

VISITORS. Science Research Council visit. Members of the Council and senior SRC officers will visit the Laboratory on Thursday, 6 October. A detailed programme for the visit will be given in a forthcoming Rutherford Laboratory Circular.

About 60 members of the Society of Highway Engineers will visit the Laboratory on Tuesday, 27 September.

A party of visitors from the Holt School, Wokingham, will visit the Laboratory on Thursday, 29 September.

I.E.E. AWARD. The "Snell Premium" was awarded to John Fox by the Institution of Electrical Engineers Council in August of this year. The award was made for his paper on "The Resonant Magnet Network on Power Supplies for the 4 GeV Electron Synchrotron, Nina", which was published in the I.E.E. proceedings for June, 1965.

MISSING EQUIPMENT. The following items of equipment have been reported missing from the P.3, Local Control Room:-

Avometer Model 8 S/No. 3844-1064
Avometer Model 8 S/No. 3095-1064
Tektronic Plug-in Unit, Type CA, S/No. 105305
Tektronic Plug-in Unit, Type CA, S/No. 105307

Anyone with information on the present location of these items is asked to contact Dr. E.G. Auld, Room 108, Building R.2, Ext 6264.

OVERSEAS VISITS. Dr. W.D. Allen and Mr. A. Carne, to the U.S.A. on 25 Sept and 26 Sept respectively returning on 16 Oct., to attend the Los Alamos Linac Conference and to visit various East and West Coast Laboratories.

Dr. C.M. Fisher, to CERN, 26-28 Sept, to attend meeting of the ECFA Working Group 2, on Bubble Chambers for high energy machines. He will also visit CERN on 5-8 Oct to attend ECFA Committee meeting on Machine Utilization Studies.

Mr. E.J.N. Wilson, to CERN, 2-7 Oct, to attend meetings of the ECFA Working Group 2 and Sub group on 300 GeV utilization Studies.

Mr. R.S. Hack, to Vienna, 2-9 Oct, to attend the IAEA Symposium on Solid-State and Chemical Radiation Dosimetry in Medicine and Biology.

Machine Schedules

NIMROD PERIOD 2/66 - Cycle 6 (20.9.66 - 11.10.66.)

Machine Physics; High Energy Physics; (K4, K6, K1, K7, ϕ 1 and π 4)

Full details of Cycle 6, were given in Bulletin No. 37/66

Internal Events

Mon, 26 Sept,
11.15 a.m., Lecture
Theatre

Nimrod
Lecture
Series

A report on the Berkeley Conference,
by Dr. P.K. Kabir, Dr. R.G. Moorhouse and Dr. R.J.N. Phillips

External Events

Wed, 28 Sept,
5.30 p.m. Imp. Coll,
London, S.W.7

Inst. of
Maths
Lecture

Dr. R.F. Churchhouse
(Atlas Lab.)

Using Computers to Discover
New Results in the Theory of
Numbers

EVENTS AT A.E.R.E.

Tues, 27 Sept,
2 p.m., Conf.
Rm, Bldg 8.9.

Theor
Phys.
Seminar

Dr. P. Schofield
(Harwell)

High Frequency Excitations
in Classical Fluids

Thurs, 29 Sept,
3.30 p.m., Conf.
Rm, H.8.

Nuclear
Phys.
Colloq.

Dr. E.R. Rae

Gamma-ray Spectra from
Neutron Resonance Capture

Social News

CHRISTIAN FELLOWSHIP. A talk on "The Christians' attitude to the Old Testament" will be given by Mr. Marvin Tate of Kentucky, U.S.A. at 12.30 p.m. on Thursday, 29 September, in the P.L.A. Conference Room R.12. All are welcome.

Rutherford Laboratory
23.9.66.

H.F. Norris Ext 484
Scientific Admin Group
Building R.20