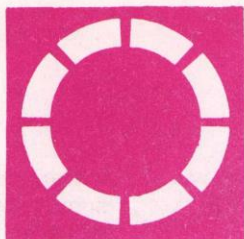


No. 29/65  
2 Aug 65



# Rutherford Laboratory Bulletin

## General News

**I.A.E.A. VACANCY.** The Pakistan Government have a vacancy for a qualified experimental physicist, experienced in the teaching of nuclear physics and on the use of a Van de Graaff Accelerator. This appointment, sponsored by the International Atomic Energy Agency, is for a duration of twelve months. Further details may be obtained from Mr. G.N. Pickles, Personnel Group, Building R.20, Ext 520.

**EXTERNAL COURSE.** The following course will be held at the Borough Polytechnic, London S.E.1.

"Laser Physics", a course of ten evening lectures commencing 14 October at 7 p.m. The fee for this course is fifty shillings. Further details may be obtained from Mrs. M.C. Gould, Personnel Group, Building R.20, Ext 575.

**RESIDENTIAL COURSE.** Details have been received of a residential course on "Fuel Cells" to be held at the University of Leicester, 27-30 September. The inclusive fee is £10. Further details may be obtained from Mrs. M.C. Gould, Personnel Group, Building R.20, Ext 575.

**MISSING EQUIPMENT.** The following items of equipment have been reported missing:-

Avometer Model 8, MK. III. Ser/No. 1599-764.  
Please contact Mr. J.H. Major, Rm 2.72, R.1 Link.

Tektronix Plug-in-unit, Type C.A. Ser/No. 101071  
Westonmaster IV Exposure Meter. Ser/No. 59048  
Anyone with information on the whereabouts of these items should contact Dr. J.T. Hyman, Building R.25, Ext 378.

Avometer Ser/No. 143625-L-862.

This instrument disappeared from Rm 1.89, Bldg R.1 between 5 p.m. on Wednesday, 21 July and Thursday, 22 July. Anyone with information on this item are asked to contact Mr. M.N. Wilson, Rm 1.89 Bldg R.1 Ext 6600.

**UNCLAIMED REPORTS.** Two volumes of "HPA, Supplement 6, Symposium of Nucleons" have been received from Birkhauser, Berlag, Basel, Lieferschein. Would the person who ordered these please contact Mr. F.J. Pill, Stores R.1-Link.

**OVERSEAS VISIT.** Mr. P.D. Hey, to Heidelberg University, Germany, and CERN 2-8 August to discuss bubble chamber track measuring machines and to observe operating requirements.

## Machine Schedules

P.L.A.

<u>Date</u>	<u>Team</u>	<u>Experiment</u>
2-4 Aug	Queen's Univ. Belfast & Westfield College	Measurement of Polarization in (p,d) Elastic Scattering.
5-8 Aug.	Manchester Univ.	Polarization Measurement of Proton Inelastic Scattering of $C^{12}$

## Internal Events

Mon., 2 Aug.,  
11.15 a.m. Lecture  
Theatre

Nimrod  
Lecture  
Series

Dr. J. Jovanovic  
(Oxford Univ.)

A Measurement of the Sign and  
Magnitude of the  $K_1^0$   $K_2^0$  Mass  
Difference.

(Preliminary results of an experiment performed at  
The Brookhaven AGS and analysed by SPASS)

Tues., 3 Aug,  
11.15 a.m., Lecture  
Theatre

Special  
Lecture

Dr. G.R. Allock  
(Liverpool)

Measurement of Time of Arrival  
in Quantum Mechanics.

Wed., 4 Aug.,  
11.15 a.m. Lecture  
Theatre.

Special  
Lecture

Dr. G.R. Allock  
(Liverpool)

Radiative Corrections to  $\mu$  and  
 $\pi$  Decay with Finite Neutrino  
Mass.

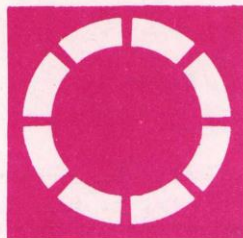
(Coffee will be available at 11.00 a.m. before all the above lectures.)

Rutherford Laboratory  
30th July, 1965.

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



No. 30/65  
9 Aug 65



# Rutherford Laboratory Bulletin

## General News

**OBITUARY NOTICE.** We deeply regret to announce the death, during the night of 2/3 August, of Mr. K.E.B. Jay, M.B.E. (AERE Scientific Administration)

**EXTERNAL COURSES.** The following courses will be held at the Borough Polytechnic, London, SE1.

"Radiological Protection", a part time day and evening course, commencing Tuesday, 5 October. The course consists of about 360 college hours, of which approximately one half will be devoted to lectures.

"Nuclear Radiation Detectors", a course of eleven evening lectures commencing Wednesday, 6 October at 7 p.m.

The following courses will be held at the West Ham College of Technology, London E.15.

"Linear Network Theory", an evening course of eighteen lectures, commencing 7 October.  
"Protection of Power Systems", an evening course of seven meetings commencing 21 October.

"Semiconductor Device Design", an evening course of twenty-four meetings, commencing 7 October.

"Semiconductor Circuit Design Theory", an afternoon and evening course, Part 1, 12 meetings, commencing 4 October and Part 2, 12 meetings, commencing 10 January, 1966.

Further information may be obtained from Mrs. M.C. Gould, Personnel Group, Building R.20 Ext 575.

**SERVICING OF TEKTRONIX EQUIPMENT.** Tektronix U.K. Ltd., have announced details of their Repair Centre facilities, for the repair and recalibration of Tektronix oscilloscopes and ancillary instruments. For further information on this new service, please contact Mr. F. Harden, Bldg R.1 Ext 6114.

**MISSING EQUIPMENT.** The following item of equipment has been reported missing:

Avometer, Model 8, Ser/No. 36910-C-855.

Will anyone with information on the whereabouts of this instrument, please contact Mr. R.G. Fowler, Lab. 6, Ext 389.

**OVERSEAS VISIT.** Mr. T.R. Walsh, to CERN 8-10 August for discussions with CERN Conference Secretariat and Information Service.

## Machine Schedules

P.L.A.

<u>Date</u>	<u>Team</u>	<u>Experiment</u>
9-10 Aug.		Maintenance
11-16 Aug	Kings College London	Elastic and Inelastic Proton Scattering from $Ti^{50}$ , $V^{51}$ , $Cr^{52}$ .

## Internal Events

Special Lectures on, "Recent Developments in Partial Wave Dispersion Relations", to be given by Professor E.J. Squires, at 11.00 a.m. Mon-Thurs, 9, 10, 11 and 12 August in the Lecture Theatre. A series of four lectures (for experimenters and theorists) including the following topics, (i) The Uniqueness of "Bootstrap" Solution, (ii) Inelasticity and Unitarity, (iii) Many Channel and Absorptive Corrections to the Peripheral Model, (iv) The Very High Energy Limit.

Coffee will be available at 10.45 a.m. before each lecture.

## Social News

CHRISTIAN FELLOWSHIP. No formal meetings will be held during August, and members may like to be reminded of the AERE meetings held each Wednesday at 1 p.m. in the Social Club Chapel.

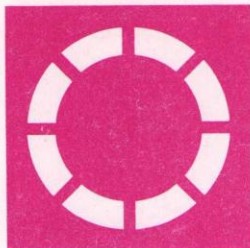
The P.L.A. Conference Room, R.12 will however be available from 1.00-1.30 p.m. on Wednesdays 11 and 25 August, for any members who would like to meeting there informally.

Rutherford Laboratory  
6 Aug 1965

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



No. 31/65  
16 Aug 65



# Rutherford Laboratory Bulletin

## General News

**EXTERNAL COURSES** Details are given from time to time of part-time courses in Science and Technology which are to be given at the Borough Polytechnic, London S.E.1. Information on various courses will still be advertised as they become available, but a copy of the calendar for part-time courses for 1965-66 has been received in which, amongst others detail is given brief information of a number of short courses (1 to 10 lectures) which are suitable for graduate engineer concerned with Mechanical and Electrical Engineering subjects.

Full details are now available on the following courses:

- "Transistors and Allied Devices", ten lectures, commencing Tuesday 6 October at 6.30 p.m.
- "Pulse Circuits and Digital Circuits", a laboratory course commencing Monday, 4th October 1.30 to 4.30 p.m. and again on 10 January.
- "Digital Circuit Techniques", eleven lectures, commencing Monday 4th October at 6.30 p.m.
- "Introduction to Transistor Theory and Applications", ten lectures commencing Tuesday, 5th October, 6.30 to 8.30 p.m.

Further details of all the above Borough Polytechnic courses may be obtained from Mrs. M.C. Gould, Personnel Group, Bldg R.20 Ext 575.

Brief details have been received of various courses of lectures, starting in September to be held at "The Polytechnic", 309 Regent St. London. For further information please see posters, displayed on the notice boards in Bldg R.12 and the west end of the 2nd floor of Bldg R.1.

**MISSING EQUIPMENT.** The following items of equipment have been reported missing:

Avometer Model 8 Mk III - Ser. No. 11717-365

Anyone with information on this item, missing from Rm. 1.57, Bldg R.1 are asked to contact Mr. F. Cullen Bldg R.1, Ext 258.

Missing from RHEL Lone pool:

X "Advance" Signal generator, type H1, Ser. No. 7747 NIRNS No. 1122 Colour blue with grey front.

Will anyone with information of the whereabouts of this instrument, please contact Mr. J.H. Hunt, Bldg R.18 Ext 6633.

**VACUUM COURSES.** Edwards High Vacuum Ltd., are offering the following courses of instruction for 1965:

General Vacuum Courses - 27 Sept-1 Oct and 6-10 Dec.  
Leak Detection Course:- 22-26 Nov.

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

## Machine Schedules

P.L.A.

<u>Date</u>	<u>Team</u>	<u>Experiment</u>
17-18 Aug		Maintenance
19-24 Aug	Queen's Univ. Belfast & Westfield College	The Study of $(p, \alpha)$ $(p, \text{He}^3)$ Reactions.

NIMROD 2 GeV operation - Cycle 6 (16.8.65.-30.8.65.)

Machine Physics  
External Beam Studies  
High Energy Physics.

<u>Team</u>	<u>Beam</u>	<u>Experiment</u>	
AERE/QMC/RHEL	P6	Proton-proton inelastic scattering	Data
Imperial College/ RHEL	$\phi 1$	Study of the $\phi \rightarrow e^+ + e^-$ decay	Setting up
Oxford Univ./RHEL	K4	Study of the leptonic decay modes of $K^+$ mesons	Setting up
Cambridge/Birmingham RHEL	K6	A measurement of $K^-$ - nucleon total cross-sections between 0.7 and 2.4 GeV/c	Setting up

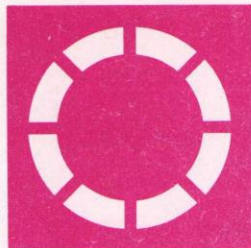
## Internal Events

Nimrod Lectures Series. These lectures have been discontinued until further notice.

Rutherford Laboratory  
13 Aug 65

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





# Rutherford Laboratory Bulletin

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No. 32/65  
23 Aug. 65.

## General News

CHANGE OF ADDRESS. Frank N. Falkner and Partners, Chartered Quantity Surveyors, who were located for many years in Bldg 328.T. have moved to Bldg R.13. where they occupy Rooms 5, 6, 7, 15, 16 and 17. The telephone extension is 6208.

INTERNATIONAL SCHOOL OF PHYSICS "ETTORE MAJORANA". Announce the 3rd course on "Structure of Elementary Particles" - Erice, 27 Sept-10 Oct 1965. Two scholarships, named Antonio Stanghellini and Alberto Tomasini, are open for competition among the applicants who have been accepted. Applications should be addressed to the Director of the School not later than 10 September. Further details from H.F. Norris, Bldg R.20, Ext 484.

OVERSEAS VISIT. Mr. J.W. Burren and Mr. J. Gardner, to CERN 23-27 Aug, for discussions on programming for flying spot digitizers.

## Machine Schedules

P.L.A.

<u>Date</u>	<u>Team</u>	<u>Experiment</u>
25-26 Aug		Maintenance
27-31 Aug	RHEL and Queen Mary College	(p,n) Reaction by the Time of Flight Method.

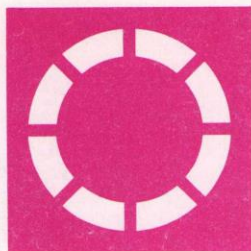
## Social News

CHRISTIAN FELLOWSHIP. No formal meetings will be held during August, but members may like to be reminded of the AERE meetings held each Wednesday at 1 p.m. in the Social Club Chapel. The P.L.A. Conference Room R.12 will however be available from 1.00-1.30 p.m. on Wednesday 25 August for any members who would like to meet there informally. The Autumn programme will be announced shortly.

Rutherford Laboratory  
20 August, 1965.

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

No. 33/65  
30 Aug 65



# Rutherford Laboratory Bulletin

## General News

OVERSEAS VISITS. Mr. J.M. Dickson, to Karlsruhe and CERN 1-11 Sept, to attend the Conference on Polarization Phenomena, at Karlsruhe and for discussions at CERN on linear accelerators.

Mr. P. Bowles, to the USA, 4-28 Sept, where he will attend an International Symposium on Magnet Technology (acting as Chairman at one of the sessions). He will also visit other Laboratories in the USA to review progress of engineering work in the field of High Energy Physics.

Dr. R.C. Hanna, Dr. L.P. Robertson, Dr. C.J. Batty and Dr. Z.J. Moroz to Karlsruhe, 5-12 Sept to attend the International Conference on Polarization Phenomena of Nucleons.

Mr. A.P. Banford and Mr. D.A.G. Broad to Karlsruhe, 5-15 Sept to attend the International Conference; they will also visit the University of Erlangen to discuss molecular beam work.

EXTERNAL COURSES. Further details have been received of courses to be held at the Borough Polytechnic, London, S.E.1.

"Advanced Theory of Electrical Machines", Tuesdays 1.30-4.30 p.m. and 6-9 p.m. commencing 28 Sept. extending over three college terms.

"System Protection" a course of twenty-one evening lectures commencing Wednesday, 29 Sept. at 7. p.m. In addition, a practical laboratory course of sixteen classes on the same subject, will be given on Friday evenings from 6 p.m., commencing 8 Oct.

Further information may be obtained from Mrs. M.C. Gould, Personnel Group. Building R.20 Ext 575.

## Machine Schedules

### P.L.A.

<u>Date</u>	<u>Team</u>	<u>Experiment</u>
30-31 Aug	RHEL and Queen Mary College	(p,n) Reaction by the Time of Flight Method
1-5 Sept	Oxford Univ.	$C^{12}$ (p,p <sup>1</sup> ) $C^{12}$ , $O^{16}$ (p,d) $O^{15}$ Reaction Studies
6-8 Sept	RHEL and Queen Mary College	(p,n) Reaction by the Time of Flight Method
4-10 Sept	Radiation Protection Gp.	
11-12 Sept.	Accelerator Physics.	

The P.L.A. will be shut down from 13 Sept - 8 October inclusive, for modifications and fitting of experimental facilities in the Experimental Areas. General maintenance and modifications on the P.L.A. and ancillary equipment will also take place.



## External Events

### EVENT AT AERE

Fri., 3 Sept  
2 p.m. Health  
Phys. Conf. Rm.

Solid State  
Phys. Div.  
Colloq.

Dr. R.A. Johnson  
(Brookhaven  
National Lab.)

Computer Calculation Defects.

Rutherford Laboratory  
27 Aug. 1965

H.F. Norris Ext 484  
Scientific Administration Gp  
Building R.20