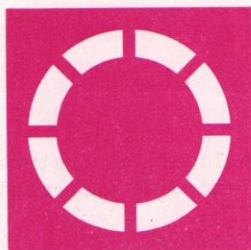


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4 Oct 65



# Rutherford Laboratory Bulletin

## General News

**POPULAR LECTURE SERIES - Experiments on Nimrod.** As the title of the series implies, these lectures are at a popular level and are meant for people who have not had the opportunity of being directly concerned with experiments on Nimrod.

The introductory lecture, "The Basic Ideas and Techniques of Fundamental Particle Physics", will be given by Dr. I.M. Blair, (A.E.R.E.), in the Lecture Theatre at 3.30 p.m. on Wednesday, 6 October.

This introductory lecture will provide a foundation for the rest of the series, and each subsequent lecture will explain one of the experiments that have been completed using Nimrod.

**EXHIBITION.** An Associated Electrical Industries Mobile Caravan Exhibition of the Type "1200" Data Presentation System will be held in the Car Park at the rear of the Southern Electricity Board Offices, 55 Vastern Road, Reading. The Exhibition will commence on Tuesday 5 October from 2-5 p.m. continuing on Wednesday 6 October and Thursday 7 October from 9 a.m. - 5 p.m. The arrangements are to provide demonstrations and discussions lasting for approximately one hour, with up to eight people at each session. Further details from H.F. Norris, Bldg R.20, Ext 484.

**EXTERNAL COURSE.** The North Berkshire College of Further Education have announced details of a new City and Guilds Course on Technical Writing. Although designed for students taking O.N.C. or Technicians' Courses, older people, whose job calls for the use of communicating skills, should also find the course beneficial. Although originally described as a one year course there is a strong possibility that it will be extended to two years. Further details will be available very shortly from H.F. Norris, Bldg R.20, Ext 484.

## Internal Events

Wed., 6 Oct. Popular  
3.30 p.m., Lecture Lecture  
Theatre. Series

Dr. I.M. Blair  
(A.E.R.E.)

No.1 - "The Basic Ideas and  
Techniques of Fundamental Particle  
Physics.

(See General News Section for details)

Wed., 6 Oct. 12.45 p.m.  
Thurs., 7 Oct 1.15 p.m.  
Lecture Theatre

Film

"Power from Fusion Part 1: The  
Principles". UKAEA, 29 minute  
colour film.

This film deals with the principles of fusion and the problems to be solved before power from fusion can be mastered. It starts with a description of the nature of plasma. The problems of producing fusion reactions are defined and the behaviour of charged particles in a magnetic field is illustrated.

## External Events

5-13 Oct: "Business Efficiency Exhibition", at Olympia, London, Daily from 10 a.m.-6.30 p.m. (4 p.m. on 9 Oct.) Tickets may be obtained from H.F. Norris, Bldg R.20 Ext 484.



## External Events - Contd.

**I.E.E. MEETINGS:** The following meetings will be held at the Institution of Electrical Engineers, Savoy Place, London, W.C.2 at the time and date indicated.

Electronics Division - Lecture on "Infra-Red Devices - Propagation, Generation and Reception," Monday, 4 Oct. at 5.30 p.m.

Lecture on "Long Wavelength Laser Generation", Thursday, 14 Oct. at 5.30 p.m.

**A.E.R.E.**

**Vacuum Discussion Group** - A discussion sponsored by the Research Group Vacuum Panel will be held in the Large Conference Room, Bldg 220 on Wed., 6 Oct, commencing at 9 a.m., under the chairmanship of Mr. H.H.H. Watson, Culham Laboratory. The theme will be "Sealing and Jointing Problems". Admission by ticket only, obtainable from Mr. F.P. Moran, Bldg 424, Ext 72-2723.

Further information can be obtained from Mr. G.S. Grossart, Bldg R.2.

## Social News

**RECORD PROGRAMME.** The weekly lunch-time concerts will commence again on Tuesday, 5 Oct. at 12.30 p.m. in the Lecture Theatre.

The Autumn season commences with Symphony No.1 by Sibelius thus continuing the series of the seven Sibelius Symphonies which started on 6 April. So far Nos 2, 3, 4 and 5 have been played. Symphony No.1 is probably, with No.5, the next most popular to No.2. It is hoped that good support will be given to both this and forthcoming concerts.

**Film Show** - See Internal Events for details of the first film in the new series.

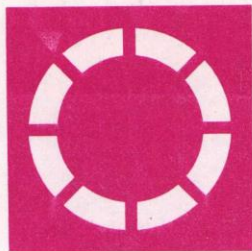
Rutherford Laboratory  
1 Oct 65

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

**STOP PRESS:** Tuesday 5 Oct. 2 p.m. Conference Room 8.9, Theor. Phys. Seminar  
Dr. F.S. Levin - A new Treatment of Exchange Effects in Scattering.



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# Rutherford Laboratory Bulletin

## General News

**OVERSEAS VISITS.** Dr. R.C. Hanna to the U.S.A., and Canada, 7 October, for three weeks where he will attend the opening ceremony of the Manitoba cyclotron and visit various laboratories.

Dr. E. Pickup and Dr. C.M. Fisher to the U.S.A., 13 October, for two weeks where they will be visiting the Argonne and Brookhaven National Laboratories, also the Avco-Everett Research Laboratory for discussions, mainly on bubble chambers and bubble chamber physics.

Mr. J.H. Major, to Saclay and CERN, 14-21 October for discussions.

Mr. K. Batchelor of the P.L.A. Accelerator Physics Group will be attached to the Brookhaven National Laboratory for a period of 13 months commencing 15 October.

## Machine Schedules

P.L.A.

<u>Date</u>	<u>Team</u>	<u>Experiment</u>
9-11 Oct.		Accelerator Physics.
12-13 Oct.		Beam Transport Checks and Beam Energy Monitor Calibration
14-16 Oct	King's College London.	Elastic and Inelastic Proton Scattering from T150, V51 and Cr52.

## Internal Events

Wed., 13 Oct. 2 p.m. Conf. Rm. R.12.	P.L.A. Seminar	Dr. J. Hardy (Oxford)	Completing Isotopic Mass Quartets.
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## External Events

A.E.R.E.

Tues., 12 Oct 2 p.m. Conf. Rm. H.8.9	Theo Phys. Seminar	D. Morgan (S.R.C.)	One Channel Dynamics of Many Channel Systems
Tues., 12 Oct. 3.30 p.m., Cockcroft Hall	Harwell Lecture	Prof. F.G. Smith (Univ. of Manchester)	Recent Developments in Radio Astronomy

(A limited number of tickets should be available shortly from H.F. Norris, Bldg R.20 Ext 484)

Thurs., 14 Oct., 2 p.m. Conf. Rm. H.8.9	Applied Maths Group Seminar	Dr. I.C. Pyle (TP Division AERE)	Project MAC (Using a computer through tele-type terminals)
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## Social News

**TABLE TENNIS** Players Wanted. The newly formed Table Tennis Club have undertaken to field two teams in the Didcot League. The Club urgently require more players, good, bad or otherwise. Why not come along to R.14 any lunchtime and enjoy the table facilities, to learn or improve your game. Ladies are also welcome, with a view to forming a Ladies team. For further information please contact K. Sinclair or J. Crawford R.9 Workshops, Ext 558.

**CHRISTIAN FELLOWSHIP.** The second talk in the new series "Man in the Light of the Bible" will be given by the Rev. Alfred Waller of Tilehurst Free Church, on Thursday, 14 October at 12.30 p.m. in the P.L.A. Conference Room, R.12, and will be entitled "Mans Catastrophes". These meetings are open to all, and we shall be glad to welcome those who have not attended before. Further details from B.E. Kingdon, R.20, Ext 6297.

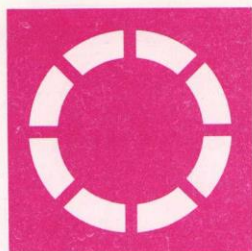
**RECORD PROGRAMME.** 12.30 p.m. Tuesday 12 October, Lecture Theatre when the programme will be devoted to British Traditional Jazz (Chris Barber/Humphrey Littleton).

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

**STOP PRESS -** Set of keys found amongst items returned from the Oxford Conference.  
Please contact H.F. Norris Ext 484.





No.39/65  
18 Oct 65

## General News

**INAUGURATION OF HELIUM REFRIGERATOR.** A press and scientific visit to RHLL, organised by British Oxygen Cryo-products, will take place on Wed., 20 October.

**OVERSEAS VISITS.** Dr. J. Howlett, to Rome, 16-23 Oct, to attend Symposium on Economics of Automatic Data Processing.

Dr. R.G. Moorhouse, to Karlsruhe, 17-23 Oct. to attend European Study-Group Symposium on Pion-Nucleon Physics.

Mr. J.F. MacEwan to CERN, 18-21 Oct, in connection with the  $K_0 \rightarrow 2\pi^0$  spark chamber experiment.

Mr. J.C. Louth and Mr. R.G. Russell, to USA, 20 Oct.-5 Nov. for discussions at Brookhaven, Berkeley and Argonne.

Dr. F.M. Russell, Mr. R. Billinge and Mr. J.H. Swain, to USA on 21 Oct for 3 weeks to attend Conference on Separated Orbit Cyclotrons at Gatlinburg, and to visit Oak Ridge, Argonne, Chalk River and Brookhaven.

**TELEVISION BROADCAST.** An ITV film on Dr. Klaus Fuchs, entitled "A Question of Loyalty", will be broadcast at 9.45 pm on Wed. 20 Oct.

## Machine Schedules

<u>P.L.A.</u>	<u>Date</u>	<u>Team</u>	<u>Experiment</u>
	19-24 Oct	King's College, London.	Elastic & Inelastic Proton Scattering from Ti50, V51 and Cr52;

## Internal Events

Mon., 18 Oct 11.15a.m. Lect. Thea.	Nimrod Lect. Series	Dr. R.J.N. Phillips (A.E.R.E.)	High Energy Charge Exchange Reactions
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Wed., 20 Oct., 12.45 pm, and Thurs., 21 Oct, 1.15pm, Lecture Theatre: "NEPTUNE'S NEEDLE". This prize-winning underwater film, made by a local group (including members of Harwell) was recently shown on BBC TV. It will be introduced each day by Mr. John Eveleigh.

Wed. 20 Oct., 3.30 p.m. Lecture Theatre.	Popular Lect. Series	Dr. J.J. Thresher	Pion-Proton Elastic Scattering and Polarisation Measurements.
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## External Events

Tues., 19 Oct., 2.30 p.m., 21 Banbury Rd, Oxford	Nuclear Physics Seminar	Dr. J.C. Hardy (McGill & Oxford)	The $A=2K+1$ Sequence of Delayed Proton Precursors
Tues., 19 Oct., 7.15 pm, J.J. Thom- son Lab. Reading.	I.E.R.E. Meeting	Dr. E.A. Faulkner (Reading University)	Research in Electronic Instrumentation at Reading Univ.
Thurs., 21 Oct., 4.15 pm, Clarendon, Oxford.	Theor. Phys. Seminar	Prof. R.E. Peierls	Realistic Nuclear Forces and Finite Nuclei

## Social News

**RECORD PROGRAMME** 12.30 pm, Tues. 19 Oct. Lecture Theatre:

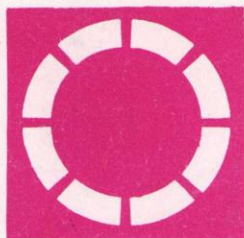
ORGAN RECITAL of Bach and Widor, recorded at the Royal Festival Hall.

**FILM SHOW.** See "Internal Events" above for details.

Rutherford Laboratory  
R.20

B.E. Kingdon Ext 6297  
Scientific Administration Group.





# Rutherford Laboratory Bulletin

No.40/65  
25 Oct 65

## General News

**VISIT.** A party of 80 members of the Institutions of Electrical, Mechanical and Civil Engineers will visit the Laboratory on Saturday, 23 October.

**OVERSEAS VISITS.** Dr. G.H. Stafford and Dr. A.M. Segar will attend the International Conference on Weak Interactions, at Argonne on 25-27 October. Dr. Segar will also visit Brookhaven to discuss bubble chamber experiments before returning.

Mr. A. Accensi will attend a meeting on bubble chamber track analysis in New York, and visit Brookhaven and Yale for discussions, on 26 Oct-4 Nov.

Dr. R.H. Thomas will attend the USAEC Symposium on Accelerator Dosimetry and Experience, at Brookhaven on 3-5 Nov., where he will read a paper and also act as Chairman of a session on the special problems of new accelerators.

## Machine Schedules

<u>P.L.A.</u>	<u>Date</u>	<u>Team</u>	<u>Experiment</u>
	24 Oct.	Kings' College, London	Elastic and Inelastic Proton Scattering from T150, V51 and Cr52.
	25-27 Oct.	University College London	Measurement of (p-p) Differential Scattering Cross-Section.
	28-30 Oct.	Oxford University	Total Reaction Cross-Sections.

## Internal Events

Mon., 25 Oct.	Nimrod	Dr. W.M. Gibson	Magnetic Moments of Hyperons.
11.15 a.m.	Lecture	(Bristol Univ.)	
Lect.Theatre.	Series		

**EXHIBITION.** A display of electronic equipment by Airmec Ltd. will be held in Conference Room No.4, Bldg. R.1, on Tuesday, 26 Oct., 10 a.m. - 4 p.m.

Mon., 1 Nov.	Nimrod	Prof. D. Stork	K <sup>+</sup> p Interactions at 1.8 and 1.95
11.15 a.m.	Lecture	(Oxford Univ.)	GeV/c.
Lect.Theatre.	Series		

## External Events

Tues. 26 Oct, 2 pm.	Theor. Phys.	Dr. D. Wilmore	Inelastic Scattering of Neutrons.
Conf.Rm., 8,9, AERE	Seminar		
Tues. 26 Oct, 2.30pm.	Nuc. Phys.	Dr. H.J. Rose	Single Hole States in N <sup>15</sup> and O <sup>15</sup>
21 Banbury Rd, Oxford	Seminar	(Oxford Univ.)	
27-30 Oct.:	International Radio Communications Exhibition, Seymour Hall, London.		
Fri. 29 Oct, 4.15pm.	Lecture	Dr. M.G.N. Hine	The CERN Intersecting Storage Rings.
Clarendon Lab. Oxford.		(CERN)	
I.E.E. Lecture, London: "Recent Developments in Ultra-High-Vacuum Technology" (29 Oct). Details from B.E. Kingdon.			

## Social News

**RECORD PROGRAMME.** 12.30 p.m., Tuesday 26 Oct., Lecture Theatre: Programme of Ballet Music, "Les Sylphides" and "Coppelia" (N.B.: Anyone who is willing to loan records of symphonies for these concerts is asked to contact Mr. P. Starling, R.1, Ext.413).

**CHRISTIAN FELLOWSHIP.** The next meeting is on Thurs. 28 Oct, 12.30p.m., when the discussion on the talk "The First Man", held at a previous meeting, will be continued under the chairmanship of Dr. John Savage of M.R.C. All are welcome. Further details from B.E. Kingdon, R.20, Ext.6297. (Meetings are held in the P.L.A. Conference Room, R.12.)

Friday, 29 Oct., Lecture Theatre: IPCS Annual General Meeting at 1 p.m. (Members only).