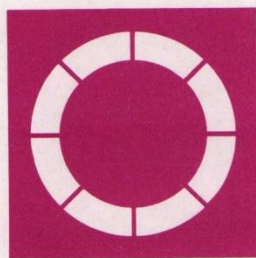


No. 17/68
6 May 68



Rutherford Laboratory Bulletin

General News

NEW CHAIRMAN OF NUCLEAR PHYSICS BOARD Professor D.H. Wilkinson, F.R.S. has been appointed Chairman of the Science Research Councils Nuclear Physics Board following the retirement of Professor C.F. Powell, F.R.S. who has been Chairman since the Board was formed in 1965.

RADIATION PROTECTION NOTICE - FILM ISSUES. Period 5 commenced 22 April. Colour Strip - PURPLE for $\beta\gamma$ and fast neutron films. Please check that you are wearing the correct films and that all old films are returned promptly.

RAIL TRAVEL, PADDINGTON - DIDCOT. A new British Rail timetable comes into force on Sunday, 5 May. The 09.15 train shown as running non-stop from Paddington to Oxford will now stop at Didcot where it will be met by the Laboratory bus. The official timetable will be amended in due course.

SCIENTIFIC ADMIN NOTICE. Part of the Scientific Admin Group are moving rooms on Monday & Tuesday, 6 & 7 May. B.E. Kingdon will be moving to Rm. 41 and H.F. Norris to Rm 42. Telephone extensions remain as before.

SYMPOSIUM. A Symposium on complex analytic methods in mathematical physics will be held at Indiana University, Bloomington, Indiana, U.S.A., on 3-6 June 1968. Further details from H.F. Norris, R.20, Ext. 484.

OVERSEAS VISITS. Dr. G. Manning, to CERN, 5-8 May, to attend EEC Meeting, N.P.R.C. Meeting and to hold discussions.

Mr. D.C. Thomas, to CERN, 5-8 May, for discussions on $\pi\pi\pi$ experiment.

Dr. C. Michael to Bulgaria and CERN, 6-21 May, to attend an International Seminar on Elementary Particle Theory at Varna, Bulgaria, returning via CERN for discussions.

Machine Schedules

NIMROD Cycle 6 (30.4.68 - 21.5.68)

Machine Physics: High Energy Physics (X1/K9, $\pi\pi$ 4, K8 & K10S)

Full details of Cycle 6 were given in Bulletin No. 16/68

P.L.A.

<u>Date</u>	<u>Team</u>	<u>Experiment</u>
6-8 May	Birmingham U.	Polarization Measurements
9-10 May		Maintenance
11-15 May	Oxford U.	Asymmetry Measurements and Pick-up Reactions on Si^{28} and Pb^{208}

Internal Events

Mon, 6 May 11.45 a.m. Lecture Theatre	Nimrod Lecture Series	Dr. C. Wilkin (U.C.L.)	The Present Status of Glauber Theory.
Tues, 7 May, 12-1.15 p.m. Lecture Theatre	Lecture for Experimentalists	Dr. B.G. Kenny	Weak Interactions: Part 5.
Wed, 8 May, 11 a.m. R1 Conf. Rm.	H.E.P. Disc. Grp.	Dr. J.C. Taylor (Oxford U.)	Toller Poles
Wed, 8 May, 12.40 p.m. Thurs, 9 May 1.15 p.m. Lecture Theatre	Film	"The Nature of Fire", a 19 min, colour film issued by the Fire Protection Association	

This film provides basic facts about the nature of fire and its control with the idea that if people know what fire is they will more readily avoid those acts of carelessness or ignorance which often cause fires.

This is the last in the present regular weekly film shows. Since the start of the series last Autumn, twenty-four films have been shown. The Editor would like to thank all those who have sent in suggestions for future film shows; they will be considered when planning the next Autumn series.

Wed, 8 May, 2 p.m. R.12 Conf. Rm.	P.L.A. Lecture	Prof. G.W. Greenlees (U. of Minnesota)	The third in a series of three lectures on "The Reformulated Optical Model".
Thurs, 9 May, 3.15 p.m. Lecture Theatre	Rutherford Laboratory Lecture	Prof. D.H. Wilkinson (Oxford)	How to Look at the Nucleus.
Mon, 13 May, 11.45 a.m. Lecture Theatre	Nimrod Lecture Series	Dr. R.A. Carrigan (Carnegie and DESY)	Mesic X - Rays

External Events

Mon, 6 May, 4.15 p.m. Queen Mary Coll. London	Theor. Phys Seminar	Dr. K.J. Barnes (Imp. Coll.)	Current Algebra and Form Factors
Mon, 6 May, 5 p.m. Univ. of Reading	Colloq.	Prof. A.K. Jonscher (Chelsea College of Science) and Technology	Electrical Conduction in Disordered Dielectrics and Semiconductors.

Thurs, 9 May, 4.15 p.m.
Clarendon Lab. Oxford

Theor. Phys
Seminar

Prof. W.R. Wright

The Peierls - Bogolyubov Inequality for the
Free Energy.

Thurs, 9 May, 4.15 p.m.
Univ. Coll. London

Elementary
Particle Physics
Seminar

Dr. A. Donnochie
(Glasgow)

Nuclear Phrenology

Fri, 10 May, 4.15 p.m.
Clarendon Lab. Oxford

Colloq.

Prof. W. Allis
(Oxford)

(Subject to be announced)

EVENTS AT AERE

Tues, 7 May, 2 p.m.
Conf. Rm, B 8.9

Theor. Phys.
Div. Seminar

Dr. A. Leggett
(Univ. of Sussex)

Condensation and Coherence in "Partially
Finite" Systems.

Thurs, 9 May, 3.30 p.m.
Conf Rm, H.8

Nuclear Phys.
Div. Colloq.

Dr. B. Röse

Visit to Australia and Pakistan

Social News

RECREATIONAL SOCIETY - ANNUAL OPEN DARTS TOURNAMENT.

The Society is again sponsoring the Annual Darts Tournament this year, which will be open to everyone working at the Rutherford and Atlas Laboratories. The proposed date is Friday, 24 May and it will be held in the R.22 Coffee Lounge; a bar extension will be applied for.

The Challenge Cups, "Team", "Double" and Singles will be played for by teams of four, consisting of one singles player, two doubles players and one extra player who will also take part in a knock-out game with any guests.

A charge will be made for each team entered but all guests are welcome at no extra charge. Prizes will be given to all winners and runners up of the final games.

Any section wishing to enter a team or requiring further information, should contact Joe Hoskins or Bill Russet, R.12 Electrical Workshop, Ext. 6198.

The names of team players and entrance fee are required by Friday, 18 May and names of any guests are required by Wednesday, 22 May.

RUTHERFORD AND ATLAS LABORATORIES CRICKET CLUB. At the inaugural meeting held on 29 April the following officers were elected:-

Chairman:- P. Craske, Secretary:- J. Rimen, Treasurer:- J.A. Lidbury

Committee: A.R. Cash, D. Craddock, A. Jenkins and R. McClure.

An annual subscription of 2/6 is proposed (plus initially, 6d per person per game). For further information, contact any committee member.

BETATOMIC '68. Harwell are arranging another 'pop' dance on Friday, 28 June. Tickets which are available to staff and personal guests only, will be sold in the Cash Office, R25, at 12/6, from 3-31 May.

Transport is being arranged and tickets at 2/6 each are also available from the Cash Office. Any queries regarding the dance should be made to Mrs. H. Woodcock, Ext. 6189 and not the Cash Office.

CHRISTIAN FELLOWSHIP. 12.30 p.m. Friday, 10 May, Conf. Rm, R.12

Prayer Meeting led by Ernie Newbold. All are welcome.

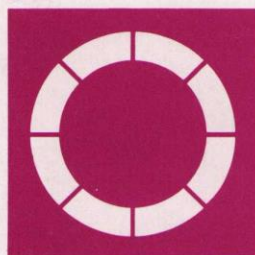
RECORD SOCIETY. There will be no more regular weekly record programmes until the Autumn.

H.F. Norris, Ext. 484
Scientific Admin. Group.
Building R20

Rutherford Laboratory

3.5.68.

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Rutherford Laboratory Bulletin

General News

OBITUARY NOTICE. We deeply regret to announce the death of Mr. W. A. Calvert, Experimental Worker 9, of the Central Engineering Group, on Tuesday, 7 May. Bill Calvert who was aged 62 joined the Laboratory in June, 1962. Our deepest sympathy is extended to his wife and family.

RADIATION PROTECTION NOTICE - FILM ISSUE. It is Period 5. Colour Strip - PURPLE for both $\beta\gamma$ and fast neutron films. Next film issue - 20 May.

SUGGESTION AWARDS. At the meeting of the Suggestions Awards Committee on Thursday, 25 April the following awards were made.

- £7. 10s. Od. to R. W. Wheatley - Increasing the efficiency of the R.2 lift.
- £5. 0s. Od. to C. R. Gascoigne - A method of reducing wear on a bandsaw.
- £5. 0s. Od. to E. G. Starr - Elimination of a hazard on the air cooled diffusion pumps.
- £5. 0s. Od. to W. Higgins - Prevention of a hazard to pedestrians on Road 1.
- £1. 10s. Od. to A. Smith - Improving efficiency in R.43.

Machine Schedules

NIMROD Cycle 6 (30.4.68 - 21.5.68)
Machine Physics; High Energy Physics (X1/K9, π^+ 4, K8 and K10S).
Full details of Cycle 6 were given in Bulletin No. 16/68.

P.L.A.

Date	Team	Experiment
13 - 15 May	Oxford U.	Asymmetry Measurements and Pick-up Reactions on Si^{28} and Pb^{208}
16 - 21 May	Q.M.C. and Queen's Univ. Belfast.	"D" Parameter Measurement at 50 MeV.

Internal Events

Mon., 13 May, 11.45 a.m., Lecture Theatre	Nimrod Lecture Series	Dr. R. A. Carrigan (Carnegie and DESY)	Mesic X-Rays
Tues., 14 May 12 - 1.15 p.m., Lecture Theatre	Lecture for Experimentalists	Dr. B. G. Kenny	Weak Interactions: Part 6
Wed., 15 May, 11 p.m., R.1 Conf. Rm.	HEP Disc Group	R. C. Field (Oxford)	Measurement of the Branching Ratio $K_{e3}/K_{\mu3}$
Thurs., 16 May, 2 p.m., R.12 Conf. Rm.	P.L.A. Nuclear Phys. Disc. Grp.	Dr. L. E. Williams	Report on the Washington Meeting of the A.S.P.

External Events

Mon., 13 May, 3.45 p.m., Queen Mary Coll. London.	Theor. Phys. Seminar	Dr. R. J. Elliott (Oxford)	Interactions Between Spin Waves.
Tues., 14 May - Fri., 24 May. Tickets from H. F. Norris, R.20, Ext. 484			Mechanical Handling Exhibition, at Earls Court, London.
Mon., 13 May - Sat. 18 May. Tickets from H. F. Norris, R.20, Ext. 484.			I.E.A. Exhibition, at Olympia, London.
Wed., 15 May, 4.15 p.m., Univ. Coll. London	Elementary Particle Physics Seminar	Dr. H. Osborn (Sussex)	Relativistic Corrections to Two-Particle Calculations and how to get the Correct Answer from a Sum Rule.
Wed., 15 May 4.45 p.m., Royal Fort, Bristol	Phys. and Geophys. Colloq.	Prof. A.D. Buckingham (Bristol)	Molecules in the Electric Fields.

EVENTS AT THE ATLAS LAB.

Wed., 15 May, 2.30 p.m., Conf. Room.	Talk	Janet E. Armitage (Sheffield U.)	The Automatic Generation of Subject Indexes
Thurs., 16 May., 2.30 Conf. Rm.	Talk	Prof. J. C. Lingoes (U. of Michigan)	Non-Parametric Transformation Analysis for Co-ordinate Representation of Data. Some General Techniques.

EVENTS AT A.E.R.E.

Tues., 14 May, 2 p.m., Conf. Rm. B8.9	Theor. Phys.Div. Seminar	Dr. J. S. Dowker (Manchester U.)	Gravitational Analogues of Some Electromagnetic Effects.
Thurs., 16 May, 3.30 p.m., Conf. Rm. H.8	Nuclear Phys. Div. Colloq.	Dr. F. M. Russell (S.R.C.)	Observations on Marking in Mica.

Social News

RECREATIONAL SOCIETY - ANNUAL OPEN DARTS TOURNAMENT.

The Society is again sponsoring the Annual Darts Tournament this year, which will be open to everyone working at the Rutherford and Atlas Laboratories. The proposed date is Friday, 24 May and it will be held in the R.22 Coffee Lounge; a bar extension will be applied for.

The Challenge Cups, "Team", "Double" and Singles will be played for by teams of four, consisting of one singles player, two doubles players and one extra player who will also take part in a knock-out game with any guests.

A charge of £1 will be made for each team entered but all guests are welcome at no extra charge. Prizes will be given to all winners and runners up of the final games.

Any section wishing to enter a team, or requiring further information, should contact Joe Hoskins or Bill Russet, R.12 Electrical Workshop, Ext. 6198.

The names of team players and entrance fee are required by Friday 18 May and names of any guests are required by Wednesday 22 May.

CHRISTIAN FELLOWSHIP. Fri., 17 May, P.L.A. Conf. Rm., R.12, at 12.30 p.m.

Bible Study on "The Gospel", led by B. E. Kingdon.

All are welcome.

DATES FOR YOUR DIARY: 21 - 24 May. Chelsea Flower Show (21 May - Members only).

Oxford & District Brass Bands Association Contest, Sunday 12 May, 1 p.m. to 7 p.m. approx., in the Abbey Hall, Abingdon.

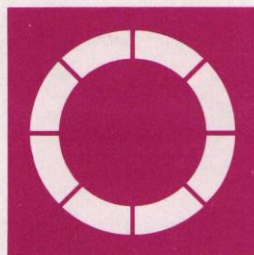
H. F. Norris Ext. 484
Scientific Admin. Group
Building R.20.

Rutherford Laboratory
10.5.68
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STOP PRESS:

Mon., 20 May, 11.45 a.m. Lecture Theatre	Nimrod Lecture Series	Dr. N. Byers	Title to be announced.
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No. 19/68
20 May 68



Rutherford Laboratory Bulletin

General News

RADIATION PROTECTION NOTICE - FILM ISSUE. Period 6 commences Monday, 20 May. Colour Strip - GREY for $\beta\gamma$ and fast neutron films. Please change your films promptly and return all old films as soon as possible.

OVERSEAS VISITS. Mr. J.M. Dickson, to the U.S.A., 18 May - 3 June, to attend the Brookhaven International Linac Conference.
Mr. A. Carne, to the U.S.A. & Canada, 18 May - 14 June, to attend the Brookhaven International Linac Conference; to visit various Laboratories and to attend the Brookhaven Working Party on Superconductivity Devices.

Mr. W. Turner, to CERN, 19 May, for discussions on the optics of large bubble chambers.

SCIENTIFIC ADMIN NOTICE. Due to the Whitsun holiday, the next Bulletin No. 20/68 will cover two weeks. Items for inclusion in this issue should be sent to H.F. Norris Rm. 42, Bldg. R.20 by Wednesday mid-day May 22, or earlier if possible.

Machine Schedules

NIMROD Cycle 7 (21.5.68 - 11.6.68)
Machine Physics
High Energy Physics

Team	Beam	Experiment	
-	X1/K9	Beam Studies	Setting up
QMC/AERE/RHEL	T14	A Study of the Σ Beta Decay	Data
UCL/RHEL	KB	K^+p Differential Cross-sections from 0.85 to 2.2 GeV/c	Setting up
Oxford U	K108	Study of $K^+p \rightarrow$ Neutral States	Setting up
UCL/CERN/Brussels U.	K11	K^- Interactions in the Heavy Liquid Bubble Chamber	Setting up
Birmingham U.	K12	K^+p Differential Cross-sections from 0.45 to 0.85 GeV/c	Setting up
Cambridge /RHEL	K13	Test of $\Delta S = \Delta Q$ Interactions in the Decay of K^0 Mesons	Setting up
Westfield Coll/RHEL	K14	Measurement of the Non-leptonic Decay of the Parameter of the Σ^+	Setting up
RHEL	K14A	Study of the Polarization Effects in π^+p Scattering	Setting up

P.L.A.

Date	Team	Experiment
20-21 May	QMC and Queens' Univ. Belfast	"D" Parameter Measurement at 50 MeV
22-23 May		Maintenance
24-30 May	Prof. Greenlees.	Polarization Measurements in Elastic Scattering

Internal Events

Mon, 20 May, 11.45 a.m. Lecture Theatre	Nimrod Lecture Series	Dr. Nina Byers (Clarendon)	Droplet Model Fits to Recent Experimental Results
Mon, 20 May 2.15 - 5 p.m. Lecture Theatre	Nimrod Users Meeting		
Tues, 21 May, 12-1.15 p.m. Lecture Theatre	Lecture for Experimentalists	Dr. J.E. Paton	Introduction to SU3 : Part 1.
Wed, 22 May, 11 a.m. Conf. Rm, R1	H.E.P. Disc. Grp	Dr. J.E. Paton	Nuclear Bremsstrahlung
Mon, 27 May, 11.45 a.m. Lecture Theatre	Nimrod Lecture Series	Dr. P. Schublin (CERN)	Operation of Wide-gap Wire Chambers and Initial Results from the CERN Boson Spectrometer.

External Events

Mon, 20 May, 4.15 p.m. Queen Mary Coll. London	Theor. Phys. Seminar	Prof. R. Penrose (Birkbeck Coll)	Twistors
Mon, 20 May, 5 p.m. Univ. of Reading	Colloq.	Dr. H.G. Jerrard (Southampton)	Physical Techniques for the Determination of Molecular Parameters.

Wed, 22 May, 2.15 p.m.
Univ. Coll. London

Inst. of
Maths Meeting

The Dainton Report on "Inquiry into the flow of candidates in science and technology in higher education" (Admission by ticket - details only from H.F. Norris Ext. 484)

Wed, 22 May, 4.45 p.m.
Royal Fort, Bristol

Phys & Geo-Phys
Colloq

Dr. J. Malos
(Bristol)

Looking for Quarks

Thurs, 23 May, 4.15 p.m.
Univ. Coll. London

Elementary Particle
Physics Seminar

Dr. G. Imirzi
(U.C.L.)

Semi-phenomenological Approach to
Multichannel Scattering

EVENTS AT A.E.R.E.

Tues, 21 May, 2 p.m.
Conf. Rm, B 8.9

Theor Phys Div.
Seminar

Prof N.H. March
(Sheffield U.)

Vacancies and the Theory of Melting

Thurs, 23 May, 3.30 p.m.
Conf. Rm. H.8

Nucl. Phys. Div.
Colloq

Dr. B. Rose

Visit to Australia and Pakistan

Social News

CRICKET - LOVELY CRICKET. The Curtis Bennett Shield match between Travaux and the S.R.C. will be held on Wednesday, 22 May, at A.E.R.E. Harwell, starting at 2 p.m. The team selected to represent the SRC is captained by Barry Briscoe. The Rutherford Lab is represented by three players plus a reserve, the Atlas Lab by two players plus two reserves. We wish Barry and the team good luck and good weather.

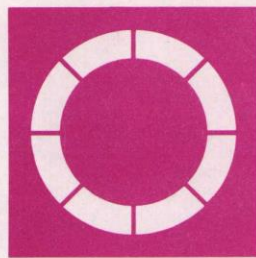
CHRISTIAN FELLOWSHIP. Fri, 24 May, PLA Conf. Rm. R.12 at 12.30 p.m.

Prayer Meeting led by Ray Powell. All are welcome.

Rutherford Laboratory.
17.5.68.

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

No. 20/68
27 May 68



Rutherford Laboratory Bulletin

General News

VISITORS. Thirty members of the ASLIB Electronics Group will visit the Laboratory on Tuesday 28 May.

NEW COMPUTERS AT THE LABORATORY. Two new small computers have recently been installed at the Laboratory, an IBM 1130 and a D.D.P. 516.

The D.D.P. 516 is now operational, testing future programs etc., however it will eventually be used on-line to experiments. The computer has a D.M.C. (Direct Multiplexed Control) for communication with experimental apparatus whilst computation is taking place. The data received from experiments will be stored on magnetic tape for processing by the large IBM 360 computer. In addition, provision is available for simple on-line checks of data from spark chamber and counter experiments.

The D.D.P. 516 has a core store of 8192 - 16 bit words, with a core memory cycle time of 0.96 μ sec. In addition to the magnetic tape unit referred to above, other facilities include a fast paper tape reader, input/output tele-tape unit and digital to analogue converters for use in providing an oscilloscope display of data, which all adds up to a fairly small but very fast, versatile computer.

The IBM 1130 computer which is situated in R.1 and is also operational has a core store of 16 K (ie 16384) - 16 bit words with an access time of 2.2 μ sec. In addition, it has a disc store of 512 K - 16 bit words, a card reader punch and its own monitor system. In use it will be connected to six rough digitizers (to feed H.P.D. flying spot scanners), four scanning tables for data collection, and four precision measuring tables for bubble chamber film. In the case of the measuring machines, two dimensional fitting will be carried out as each frame is measured. In all cases, operators will receive back information on the validity of their measurements via a typewriter, corrective action can then be taken before moving on to the next frame. Operators can also ask for data to be sent back from the computer for checking.

The IBM 1130 will be connected to the large central computer (the IBM 360) via a parallel data adapter in the 2701 unit. Data transfer will however only take place at intervals of a few hours due to the large disc storage system on the 1130 of over half a million words.

This of course differs from the D.D.P. 224 Daedalus system, (a unique method of time sharing) which communicates with the '360' at the milli-second level.

RADIATION PROTECTION NOTICE - FILM ISSUES. Period 6 commenced Monday, 20 May. Colour Strip - GREY for and fast neutron films.

Please check that the film is worn correctly in the blue holder, both colour strip and number must be showing in the open window and worn facing away from the body.

LIQUID HELIUM SUPPLIES. Will people who require liquid helium supplies early on Mondays, please order from A.E.R.E. before 10.30 a.m. on the previous Friday.

IFIP CONGRESS. Information has now been received on the International Federation for Information Processing Congress to be held at Edinburgh, from 5-10 August 1968. Application forms and further information from H. F. Norris, R.20, Ext 484.

OVERSEAS VISIT. Dr. G. H. Stafford to CERN, 4-5 June, to attend a meeting of the Nuclear Physics Research Committee.

Machine Schedules

NIMROD Cycle 7 (21.5.68 - 11.6.68)

Machine Physics: High Energy Physics (X1/K9, 4, K8, K10S, K11, K12, K13, K14 and K14A).

Full details of Cycle 7 were given in Bulletin No. 19/68.

P.L.A.

Date	Team	Experiment
27-30 May	Prof. Greenlees	Polarization Measurements in Elastic Scattering
31 May-4 June	Oxford Univ.	Asymmetry Measurements and Pick-up Reaction on Si ²⁸ and Pb ²⁰⁸
5-6 June		Maintenance
7-14 June	Kings' College London	Asymmetry and Polarization Studies on Ar ⁴⁰ at 30 and 50 MeV

Internal Events

Mon, 27 May, 11.45 a.m. Lecture Theatre	Nimrod Lecture Series	Dr. P. Schublin (CERN)	Operation of Wide-gap Wire Chambers and Initial Results from the CERN Bason Spectrometer
Tues, 28 May, 12 -1.15 p.m. Lecture Theatre	Lecture for Experimentalists	Dr. J. E. Paton	Introduction to SU3 : Part 2
Wed, 29 May, 11 a.m. Conf. Rm, R.1	H.E.P. Disc Grp.	Dr. A. Astbury	Decay and the Status of the Cabibbo Theory
Wed, 5 June, 11 a.m. Conf. Rm., R.1	H.E.P. Disc Grp.	Dr. T. Bacon	Experiments on K ⁰ Decay
Mon, 10 June, 11.45 a.m. Lecture Theatre	Nimrod Lecture Series	Prof P. T. Matthews (Imp. Coll.)	Particle Production at Intermediate Energies

External Events

Mon, 27 May, 4.15 p.m. Queen Mary Coll. London	Theor. Phys Seminar	Prof. C. A. Coulson (Oxford)	Commutator Relations and the Wave Equation
Wed, 29 May, 10.15 a.m. Carlton House Terrace, S.W.1.	Inst. of Maths Symposium	The Mathematics of Hydrology.	
Thurs, 30 May, 2.30 p.m. Clarendon Lab., Oxford	Low Temp. and Solid State Phys. Seminar	Dr. R. M. Bozorth	Magnetism in Single Crystals of Rare Earth Metals and Alloys

Thurs, 30 May, 4.15 p.m.
Clarendon Lab., Oxford

Theor. Phys.
Seminar

Prof. W. E. Lamb
(Yale & Sussex U.)

The Theory of the Laser

Fri, 31 May 4.15 p.m.
Clarendon Lab., Oxford

Colloq.

Prof. W. E. Lamb
(Yale & Sussex U.)

The Physics of Lasers

EVENTS AT A.E.R.E.

Tues, 28 May, 2 p.m.
Conf. Rm., B.8.9

Theor. Phys. Div.
Seminar

Dr. M. Child
(Physical Chem.
Inst. Oxford)

Adiabatic Theory of Chemical
Reactions

Thurs, 30 May 3.30 p.m.
Conf. Rm., H.8

Nucl. Phys. Div.
Colloq.

Mr. D. L. Allen

Connexions Between States of Odd
and Even Mass Nuclei

Social News

CRICKET. The Curtis Bennett Shield match between an SRC team and Travaux (Ministry of Public Buildings and Works), played at A.E.R.E. Harwell on Wednesday last resulted in an easy victory for Travaux.

SRC batting first, were all out for 48, Travaux replying with 52 for 2. J. Kershaw (Travaux), a very good fast bowler, caused the SRC team considerable trouble as his figures of 8 wickets for 19 runs prove. Top scorer for the SRC team was Ray Smith with 11 runs. SRC were perhaps unfortunate in drawing Travaux in the first round, a team who were beaten in the final two years ago.

EVENING CRICKET FRIENDLY. At a match played on Thursday, 16 May, H.E.P. Physicists beat the Mechanical Drawing Office by 7 wickets. Scores, - Physicists 15 for 3 and Drawing Office, 14 all out.

DARTS TOURNAMENT. Owing to school examinations and (it is said) nice gardening weather, only three teams were entered for the Annual Darts Tournament. It has therefore been decided to postpone this event until the Autumn.

PUTTING GREEN. The putting green will be available, after Whitsun for use by all personnel at a charge of sixpence, per putter per lunch break. The charges are reduced for members of the Recreational Society so join now if you are not already a member. Putters and balls will be issued each day by Mr. K. L. Yeo, R2, Ext 280.

CHRISTIAN FELLOWSHIP. Fri, 31 May, P.L.A. Conf. Rm., R.12 at 12.30 p.m.
A recording of a Billy Graham Sermon.

Fri, 7 June, P.L.A. Conf. Rm., R.12 at 12.30 p.m.
A talk on "Evangelism" to be given by Pastor Eric Lavender from Northampton.

All are welcome.

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

Rutherford Laboratory.

24.5.68.