

No.10/66 7 Mar 66

General News

MISSING EQUIPMENT. The following items of equipment have been reported missing from the R.18 electronics workshop:

Avometer Model 8, Ser/No. 139893-C-562 Avometer Model 8, Ser/No. 120768-C-461 Wolt 4 Drill, Ser/No. 13862

Will anyone with information on the whereabouts of these items please contact Mr. J. Slade or Mr. J.H. Hunt. R.18 Workshops, Ext 6633.

SCIENTIFIC ADMINISTRATION NOTICE. It is apparent that many staff are unaware of the extent of information available in Scientific Administration on conferences, lectures, exhibitions, etc. Selected items are published each week in the Bulletin. The information bulletins, notices, etc., held in Scientific Administration are listed below. They are not available for loan but can be seen in Room 21, Bldg R.20 on application to H.F. Norris (Ext 484), anyday in the week though preferably not Thursdays.

Exhibition Bulletin: issued monthly, listing exhibitions fairs etc, in Great Britain and overseas as far ahead as 1969.

Naval Scientific and Technical Information Centre: issued monthly, containing selected list of scientific meetings in the U.K. during the current month and the following month overseas.

International Atomic Energy Agency: published every two months, containing lists of conferences, meetings and training courses in atomic energy

Institutes: Physics and the Physical Society, Mathematics and its Applications, Electrical Engineers, Mechanical Engineers - advance

tions, Electrical Engineers, Mechanical Engineers - advance notices, press releases, current information - arriving nearly

every day.

Universities: lists of lectures, seminars, colloquia etc, from Oxford,

Cambridge, Bristol, Southampton, Edinburgh, Reading and Queen

Mary College

Additional information is received from time to time on district meetings of the following: Institute of Electronics and Radio Engineers, I.E.E. Oxford District, Association of Supervising Electrical Engineers.

Any suggestions for extending the supply of information will be welcomed by the Editor.

PHYSICS EXHIBITION. Tickets are now available for the 1966 Exhibition which is to be held in the Great Hall, Alexandra Palace, Wood Green, London, N.22 from 28-31 March. A special bus service will operate between Wood Green Underground Station and the Hall. Applications for tickets should be made to the appropriate Divisonal Admin Office.

OWERSEAS VISITS. Dr. L.C. ... Hobbis, to CERN 6-10 March, to attend the First Plenary Session, University Committee for Future Accelerators, and for discussions on accelerator operation and development.

Dr. E. Pickup and Dr. C.M. Fisher, to CERN 9-12 March to discuss new bubble chamber project.

Machine Schedules

P.L.A.

Date. Team Experiment

7-8 Mar Birmingham Univ. Polarization Studies at 30 MeV

9-10 Mar Maintenance

queen's Univ. Polarization in (p,D) Elastic Scattering Belfast & Westfield Coll. at 30 and 50 MeV

Internal Events

There will be no lecture in the Nimrod Series on 7 March

Wed, 9 March 12.40 p.m. Thurs, 10 Mar. 1.15 p.m. Lecture Theatre

Film

"The Vital Link" a P.L.A. 30 min colour film.

This has no connection with our P.L.A.: it is, in fact about a very much older P.L.A. - The Port of London Authority. It tells something of the work of the Authority, refers to the handling of various commodities such as grain and tobacco and concludes with some aspects of export problems. It was made by a retired member of the Authority staff.

Wed, 9 Mar, Popular 3.30 p;m. Lecture Lecture Theatre Series

Prof. E.H. Bellamy (Westfield College) A Search for the Z+ Particle

Mon, 14 Mar, Nimrod 11.15 a.m. Lecture Lecture Theatre Series Dr. R.J. Eden (Camb.)

Cross-sections at High Energy

Weak Interactions in Nuclear

Physics.

External Events

Thurs, 10 Mar, 3.30 p.m. Conf.

Rm. H.8

Nuclear

Colloq.

Phys. Div.

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Theor. Phys. Seminar	Dr. P.K. Kabir (RHEL)	µ-Mesonic Molecules
IEETE London Meeting	A.St. Johnston (Elliott Automation Computers Ltd.)	Control by Computers
Nuclear _Physics Seminar	Mr. N. Chant (Oxford)	Some (p,d) Experiments using Polarized Beams
I.E.E. Lecture	A.W. Bright (Southampton) & P.L. Secker (Univ. Coll. of North Wales)	Applications of Electrostatics
I.E.E. Electronics Div. Lecture	Prof. C.W. Oatley (Camb.)	The Scanning Electron Microscope and other Electron Probe Instruments
I.E.E. District Meeting	Mr. J.E. Ayres (Assoc. Elect. Ind. Ltd.)	Solid State Switching
Theor on Phys Seminar	Dr. I.J.R. Aitchison (Camb.)	A Simple Dispersion Theory Model for Three-Body Processes
I.E.R.E. District Meeting	P. Atkinson & A. Ley	Randon Signal Testing
		Transport with the first the parties
Applied Maths Grp Seminar	Mr. A.R. Curtis	Further Results on the Use of Splines for Interpolation
	Theor. Phys. Seminar IEETE London Meeting Nuclear Physics Seminar I.E.E. Lecture I.E.E. Electronics Div. Lecture I.E.E. District Meeting Theor On Phys Seminar I.E.R.E. District Meeting Applied Maths Grp	Theor. Phys. Seminar IEETE London Meeting I.E.E. Lecture I.E.E. Lecture I.E.E. Lecture I.E.E. District Meeting Theor Phys Seminar Dr. P.K. Kabir (RHEL) A.St. Johnston (Elliott Automation Computers Ltd.) Mr. N. Chant (Oxford) Seminar A.W. Bright (Southampton) & P.L. Secker (Univ. Coll. of North Wales) I.E.E. Prof. C.W. Oatley (Camb.) Theor On Phys Seminar I.E.R.E. District Meeting Applied Mr. A.R. Curtis Mr. A.R. Curtis

Dr. J.M. Freeman

Social News

RECORD PROGRAMME. 12.30 p.m. Tuesday 8 March, Lecture Theatre.

The programme this week has a Spanish flavour with works by Falla and Rodrige. "Nights in the Gardens of Spain" by Falla is remarkable in that it is the composer's only full-sized composition for the concert hall. The work is in three movements each with a specific title. The first, "In the Genevalife", refers to the old and beautiful Moorish gardens in Granda. The second and third movements" Distant Dance" and "Gardens of Sierra de Cordoba" are played without a break. It is interesting to note that the Moorish Gardens of the first movement are still kept in the style of the Moorish occupation: they date back to the thirteenth century.

The second work to be played is the "Guitar Concerte" by Rodrigo, blind since the age of three, yet one of the leading figures in Spanish music today. This composition, first performed in 1939 at Madrid, was widely aclaimed. The influence of Spanish folk music is everywhere apparent.

Why not come along and listen; everyone is welcome.

CHRISTIAN FELLOWSHIP. Mr. Peter Elford, a Reading Businessman and Paster of a Caversham Church will speak on "Man in the Light of the Bible - The Gentile", at 12.30 p.m., Thursday, 10 March, in the P.L.A. Conference Room R.12, Further details from B.E. Kingdon R.20 Ext 6297.

Scientific Admin Group Building R.20 4th March 1966

H.F. Norris Ext 484 Rutherford Laboratory



No.11/66 14 Mar.66

General News

EXTERNAL COURSE. The Basingstoke Technical College has announced details of a short course of five lectures on "Computers in Industry" commencing Wed, 27 April, 6.45-9.15 p.m. Further details may be obtained from Mrs. S.A. Fones, Personnel Branch, Bldg R.20, Ext 585.

VISIT. Twenty-five engineers attending the "Physics for Engineers" course at AERE Harwell will visit the Laboratory on Monday 14 March.

MISSING EQUIPMENT. The following item of equipment has been reported missing from the R4 electrical workshop:

Evershed and Vignoles Bridge Megger 500 volt Model No. 67008, Ser/No. 1404367 Loan Pool No. 1240

Will anyone with information on the whereabouts of this item please contact Mr. No. Medhurst, R.2 Electrical Workshop Ext.6274 or Mr. J. Jones, Loan Pool, R.18, Ext 571.

A.E.R.E. ON T.V. On Thursday, 17 March at 9.30 p.m. B.B.C.1 will be showing a documentary called "Hot to Handle; the two faces of radiation": It will include sequences filmed at AERE and other Authority establishments.

OVERSEAS VISITS Mr. A. Accensi and Mr. R.A. Lawes, to France, 14-18 March, where they will visit the Collège de France and Saclay for discussions on the HPD project.

Dr. K. Rangan, Dr. A.M. Segar, Dr. J.R. Smith and Mr. P.J. Litchfield to L.P.C.H.E. Saclay, 14-17 March, for computing and discussions concerning the Eta experiment.

Dr. C.M. Fisher and Dr. E. Pickup have changed the date of their visit to CERN to 15-18 March.

Mr. P.S. Rogers is leaving on 15 March for a twelve months attachment at Chalk River as a Research Associate in the Reactor Research Division. He will be working on SOC studies.

Machine Schedules

P.L.A.

Date	Team	Experiment
14-19 Mar	Queen's Univ. Belfast & Westfield Coll.	Polarization in (p,D) Elastic Scattering at 30 and 50 MeV.
20-21 Mar	Oxford Univ.	Si ²⁹ (p,d) Reactions

NIMROD Period 1 - Cycle 3 (14.3.66.-4.4.66).

Machine Physics Extracted Proton Beam Development High Energy Physics.

Team	Beam	Experiment	
AERE/QMC/RHEL	π4	A Study of EB Decay	Setting up
Hydrogen Bubble Chamber			
Collaboration	K1	K-d and/or T-d Measurements	DATA
Birmingham Univ/ Cambridge Univ/ RHEL	к6	K - nucleon Total Cross- section Measurements	Setting up
Oxford Univ	к4	A Study of the Decay Modes of the K+	Setting up and DATA

vate .	Team	Experiment	
RIEL/Oxford Univ	К7	To Polarization Measurements	Setting up
UCL/Westfield College	П2		Setting up and DATA
AERE/Southampton Univ/UCL	Р3	Study of $\pi^- p \rightarrow (\frac{n}{\rho} + \times x)$ Processes	Setting up
Imperial Coll.	ØI	Study of the $\emptyset - e^+ + e^-$	Setting up and DATA

Internal Events

Mon, 14 Mar 11.15 a.m. Lecture Theatre	Nimrod Lecture Series		Dr. R.J. (Camb.)	Eden	Cross-sections at High Energy.
Wed, 16 Mar. 12.40 p.m. Thurs 17 Mar. 1.15 p.m. Lecture Theatre		Film		C	The Vital Link", a PLA 30 min olour film. for details see last weeks bulletin)

We regret the postponement of this film which was caused by a breakdown in the projector. If repairs are not completed in time a notice will be placed in the coffee lounge

Wed, 16 Mar 2 p.m., Conf. Rm. R.12.	PLA Div. Seminar	Dr. J.S. McKee (Birmingham)	Proposed Neutron Experiments using the Birmingham Radial Ridge Cyclotron
			Cyclotron .

External Events

Acol like Evolico			
Mon, 14 Mar 4.15 p.m., Queen Mary College	Theor Phys. Seminar	Prof. L.B. Elton (Battersea)	Towards a Realistic Shell Model Potential
Mon, 14 Mar 5 p.m. J.J. Thompson Phys Lab. Reading	Physics Dept Colloq	Dr. C. Hilsum (R.R.E. Malvern)	The Gunn Effect
Mon, 14 Mar 5.30 p.m. Savoy Place, W.C.2	I.E.E. Lecture	R.A. Waldron (Marconi Co. Ltd.)	The Explanation of some Fundamental Phenomena of Modern Physics using a Ballistic Theory of Light
Tues, 15 Mar, 5.30 p.m. Imp Coll. S.W.7	Inst. of Maths Meeting	Prof. J.C. Shepherdson (Univ. of Bristol)	Can Mathematical Proof be Mechanized?
Tues, 15 Mar, 7.30 p.m., Coll of Tech. and Art, High Wycombe	A.S.E.E. District Meeting	Mr. J. Westwood (Dowding & Mills)	Electrical Breakdowns and their causes
AERE			
Tues, 15 Nov, 2 p.m. Conf. Rm, Bldg 8.9	Theor. Phys. Div. Seminar	Dr. D.J. Rowe	A New Approach to Time Dependant Hartree- Fock Theory
Thurs, 17 Mar, 2 p.m., Conf. Rms, Bldg 8.9	Applied Maths Gp Seminar	Dr. P.J. Collins (Oxford)	Topology - its Beauty and its Use.
Thers, 17 Mar 3,30 p.m. Conf. Rm. H.8	Nuclear Phys. Div. Colloq.	Dr. J.√. Jelley	Experiments in Collabora- tion with Jodrell Bank an Giant Showers Detected by Radio Measures.
Atlas Lab.			
Mon, 14 Mar 2.30 p.m. Conf. Rm, Atlas Lab.	Talk	F.H. Busnby (Assist. Director - Forecasting Research Met. Office)	A Ten-level Model Atmosphere Incorporating Effects of Humidity

Social News

CHRISTAIN FELLOWSHIP. The next Bible Study meeting on the Epistle of Titus will be led by Dr. David Cowdrey of MRC, at 12.30 p.m. on Thursday 17 March in the PLA Conf. Rm. All are welcome. Further details from B. Kingdon, R.20 Ext 6297

RECORD PROGRAMME 12.30 p.m. Tuesday 15 March, Lecture Theatre

Gilbert & Sullivan are familiar names in the field of light opera; the music to be played this week is not so familiar, as it is a selection from Act. 1 of Princess Ida, a work seldom performed these days due to its length and the difficulties of staging.

Rutherford Laboratory 11 March 1966 H.F. NORRIS Ext 484 Scientific Administration Group Building R.20.

STOP PRESS.

ORBIT. Last date for contributions: Monday, 14th March.



No.12/66 21 Mar 66

General News

The 1966 GENERAL ELECTION. Facilities have been provided for the three candidates in the Abingdon Constituency to address members of staff in the Lecture Theatre on the

:

Tuesday, 22 March, 12.45 p.m. Wednesday, 23 March, 12.00 p.m. : Friday, 25 March, 1.00 p.m. :

Alan Matterson, Labour Dennis Case, Liberal Airey Neave, Conservative

APPLIED PHYSICS REVIEW LECTURES. A series of review lectures has been arranged on Applied Physics topics, covering such subjects as, automatic measuring devices (flying spot digitizers), superconductivity, bubble chambers, data processing, and accelerator topics such as the SOC and C.W. cyclotrons

The first lecture in this new series, on the Separated Orbit Cyclotron (SOC) will be given by Dr. F.M. Russell at 3.30 p.m. 31st March, in the Lecture Theatre. The second lecture will be on 14 April and the series will then continue at weekly intervals. Details of each lecture will be given in the appropriate bulletin.

SUMMER SCHOOL Details have been received of the Summer School of Theoretical Physics to be held at Cargese 27 June-23 July on "Symmetry properties of elementary particles. Weak interactions at high energies". Closing date for applications: 30 April. Further details from HF Norris Bldg R.20 Ext 484

MISSING EQUIPMENT. The following item has been reported missing from Building R.6:

Avometer Model 8 Ser/No. 47425-C-556

Will anyone with information on its whereabouts please contact Mr. I.L. Watkins Bldg R.1 Ext 6159.

VISITOR. Dr. H. Brechna, Stanford University, USA will be visiting the Laboratory from 5-8 May. Anyone wishing to see him are asked to contact Mr. Bowles Ext 507

OVERSEAS VISITS Dr. G.H. Stafford, to CERN, 22-23 March, to attend meeting of the Nuclear Physics Research Committee

Dr. R.C. Hanna will make a series of visits to CERN during the 3 months starting on 19 March, He will be principally concerned with Bubble chambers.

Dr. L.C.W. Hobbis, to CERN, 20-21 March to attend a meeting of the European Committee for Future Accelerators.

Machine Schedules

P.L.A.

Date	Team	Experiment
22-23 Mar	Oxford Univ.	Si ²⁹ (p,d) Reactions
24-27 Mar	RHEL & QMC(1)	Neutron Polarization Studies at 30 and 50 MeV

Internal Fuente

Mon 21 Mar 11.15 a.m. Lecture Theatre	Nimrod Lecture Series	Dr. W.R. Holley (RHEL)	K ⁻ p Elastic Scattering from 700-1400 MeV/c
Wed, 23 Mar	Popular	Dr. N.P. Lipman	Neutron Proton Charge Exchange
3.30 p.m. Lecture	Lecture		Scattering Measurements
Theatre	Series		(N1 Experiment)

There will be no film show during the current week

External Events

Mon, 21 Mar, 4.15 p.m. Queen Mary College	Theor Phys Seminar	Prof. I.M. Khalatnikov (Moscow)	Stability of a Lattice of Vortices
Mon, 21 Mar, 4.45 p.m. Univ of Bristol	Phys. Colloq	Prof. R.H. Dalitz (Oxford)	"Quarks and the Elementary Particles"
Wed, 23 Mar, 9.15 a.m. Univ of Southampton	Surface Phys. Grp Lecture	Prof. R.L. Bell	Dislocation in Semiconductors

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.

Mon, 21 Mar, 6 p.m.: - "Electron Beam Welding and Machinery", by H.M.G. King (Mullard Research Labs.) Wed, 23 Mar, 5.30 p.m. -"Technical Information - A New Teaching Subject", - by G.H. Wright (Hatfield Coll. of Tech.)
Thurs, 24 Mar, 5.30 p.m. - "The Place of the Engineer in Society", the Twelfth Graham Clark Lecture, to be given by the Rt. Hon. the Lord Snow, C.B.E.
"Semiconduction in Organic and other Weakly Conducting Fri, 25 Mar, 5.30 p.m. -Materials", discussion, to be opened by D.C. Northrop

(Manchester) Wed, 23 Mar, Mr. G.M. Natham ASEE The History of Recording (Tech. Eng. Decca Record Co. Ltd.) 7.30 p.m., Woodstock Branch and the Making of Records

Wed, 23 March-Wed 30 March. Electrical Engineers Exhibition, Earls Court, London The exhibition is from 10 a.m.-7 p.m. daily except Thurs 24 March when it will be open until 9 p.m. and Wed 30 March when it closes at 6 p.m. Tickets are now available (to admit two) from H.F. Norris Bldg R.20 Ext 484

Lecture

A.E.R.E.

Rd, Oxford.

Wed, 23 Mar 2 p.m. Conf. Rm Bldg 8.9.	Theor Phys Div Seminar	Prof. S.F. Edwards (Manchester)	The Application of Three- Dimensional Field Theory to a Variety of Problems
Thurs 24 Mar 2 p.m. Conf. Rm Bldg 8.9	Applied Maths Grp Seminar	Dr. G. Marliss (Imp. Coll.)	Chebyshev Approximation to the Solution of Ordinary Differential Equations using Lanczos Canonical Polynomials
Thurs, 24 Mar 3.30 p.m. Conf. Rm. H.8.	Nuclear Phys Div. Colloq.	Dr. I.M. Blair	Weak Interactions in Elementary Particle Physics

Social News

CHRISTIAN FELLOWSHIP. The Fellowship Group will meet on Thursday 24 March at 12.30 p.m. in the PLA Conf. Rm R.12 for a short time of prayer. Please contact B.E. Kingdon R.20 Ext 6297 for further information.

RECORD PROGRAMME. 12.30 p.m. Thursday 24 March, Lecture Theatre (Please note change of date for this week).

Greek Folk Music - Old and New. The programme consists of examples of folk music in both the tragic epic tradition of ancient Greece and some gypsy music recorded during a 72 hour festival in the Rumeli mountains. The music is reminiscent of the hardship and suffering of the former times in Greece. With greater affluence, and the influences of radio and television the form of popular music has changed rapidly: some popular Greek songs of today will be played. They are sung by Nana Mouskouri, who sang the theme song in the film "Never on Sundays"

Rutherford Laboratory

18 Mar 66

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



13/66 28 Mar 66

General News

OPEN DAY, Saturday, 21 May 1966

The Rutherford and Atlas Laboratories will be open to staff, university visitors, their families and friends during the afternoon. Programmes and further information

The Laboratory will also be open on Thursday, 19 May as follows:

Press visit; Morning -

To invited representatives of industry, universities and Afternoon -

other educational establishments

BURSARY AND SANDWICH COURSE AWARDS, 1966. A limited number of awards are available to members of staff who wish to undertake full-time or sandwich courses at Universities or Colleges of Advanced Technology. Details may be obtained from the Personnel Group, and anyone who would like to be considered for such an award should contact A.G. Taylor, Building R.20 (Ext 495).

THE PHYSICS EXHIBITION - The Great Hall, Alexandra Palace, Wood Green, London N.22 -28-31 March. Some tickets are still available and may be obtained from DAO's and LAO's or from Scientific Administration, Ext 438. RHEL exhibits are on Stands 67 and 81.

VISITS. The following visits have been arranged.

Afternoon, Monday 28 March - Professor J.T. Wallmark and a party of 15 physics students from the Chalmers University of Technology,

Gothenburg, Sweden.

Afternmon, Tuesday 29 March - A party of about 40 delegates from the Anniversary Meeting of the Chemical Society.

Afternoon, Thursday 31 March - A party of about 75 participants from the Oxford Conference on Nuclear Structure and Elementary Particles.

OVERSEAS VISITS. Mr. G.N. Venn and Mr. R. Carr, to various accelerator laboratories in the U.S.A. for discussions. They will be away from 27 March until 12 April.

Dr. G. Manning, to CERN, 28 March for one week, to attend electronics steering committee and for discussions.

Mr. P. Wilde and Mr. J.V. Cresswell, to CERN, 30 March-1 April, for discussions on fast counting systems.

Machine Schedules

P.L.A.

Date Team 27-29 March

RHEL & QMC(1)

30 Mar-1 April

Oxford Univ.

Experiment

Neutron Polarization Studies at 30 and 50 MeV

Maintenance

Si²⁹ (p,d) Reactions

Internal Events

2-5 April

Mon 28 Mar.

11.15 a.m. Lecture Theatre

Nimrod Lecture Series

Prof. D.H. Wilkinson (Oxford)

Nuclear Structure Physics with pions and muons.

Mon 28 March

2.45 p.m. Lecture Theatre. (Please note change of time)

Thurs 31 Mar. 3.30 p.m. Lecture Theatre

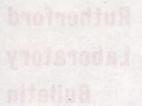
Applied Physics Series

Dr. F.M. Russell (RHEL)

Nimrod Users meeting.

The Separated Orbit Cyclotron (SOC).

(Please see "Social News" for details of a film show this week)





External Events

I.E.E. MEETINGS. The following meetings will be held at the Institution of Electrical Engineers, Savoy Place, London W.C.2.

Tues, 29 Mar, 5.30 p.m.	- "Gunn Effect Devices", discussion with contributions from Prof. A.K. Jonscher (Chelsea Coll. Sc. & Tech.)
	Dr. J.S. Heeks (Standard Tel. Labs. Ltd.) and Dr. J.E. Carroll (S.E.R.L.)
Fri, 1 Apr, 5.30 p.m.	 "Problems of short term loading of semiconductor devices discussion, to be opened by S.A. Stevens (Westinghouse Problems of Signal Co. Ltd.)

Brake & Signal Co. Ltd.)

Mon, 4 Apr, 5.30 p.m. - "Measurements on semiconducting materials", by Dr. G.A.

Allen (Mullard Research Labs)

Mon, 4 Apr, 6.00 p.m. - "Microelectronics" by G.W.A. Dummer (Supt., Appd. Phys., R.R.E.) - meeting arranged by the IEETE.

A.E.R.E.

Thurs, 31 Mar	Appd.Maths	Dr. J.B. Parker (A.W.R.E.)	A Self-Service System with
2 p.m. Conf.	Group		Scheduled Arrivals (an exercise
Rm 8.9.	Seminar		in queuing theory)
Thurs, 31 Mar 2 p.m. Conf. Rm H-7-	Theor. Phys. Div Seminar	Prof. I.M. Khalata (Moscow)	nikov Collective Excitation in Type 2 Superconductors.

ATLAS LABORATORY

Mon 4 Apr	Talk	T.H. Howard-Hill Computer Analysis of
2.30 p.m. Conf.		(Research Fellow, Shakespearean Text
Rm, Atlas Lab.		Oxford Computing
		Lab Holder of extramural research grant from Atlas Computer Laboratory)

Social News

RECORD PROGRAMME. 12.30 $p_{\bullet}m_{\bullet}$ Wednesday 30 March (Please note change of day for this week)

"The Nutcracker" -ballet music by Tschaikowsky. This will be a stereo recording, performance by the orchestra Sinfonia of London, conducted by the late John Hollingsworth. It is a much fuller version of this delightful ballet music than the popular Suite so often heard.

CHRISTIAN FELLOWSHIP. 12.30 p.m. Thursday 31 March, P.L.A. Conference Room R.12: Open discussion meeting led by Mr. Jimmy Darius of the P.L.A. Workshops. Further details from B.E. Kingdon, R.20, Ext.6297.

FILM SHOW. 12.35 p.m. Friday 1 April, Lecture Theatre.

"The Mystery of Three Clocks".

This is a 30-minute "Fact and Faith" colour film dealing with chemical reactions and the arousal centre of the brain. The programme has been arranged by the RHEL Christian Fellowship Group, and all are welcome.

Rutherford Laboratory Scientific Administration Group Building R_•20 25th March, 1966

R.C. Pepperell