

Rutherford Laboratory Bulletin

No. 4/65
1 Feb 65

General News

OVERSEAS VISITS. Dr. W.A. Smith and Mr. T.R. Mason to Emil Haefely and Cie., A.G., Basle and C.E.R.N., Geneva, 8-11 Feb., for discussions.

EXTERNAL COURSE. The following course will be held at the Borough Polytechnic, London, S.E.1, during the 1965 session:-

"Communication Codes" - four evening lectures commencing Monday,
8 March at 6.30 p.m.

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

MISSING EQUIPMENT. The following item of equipment was borrowed by someone working on Nimrod early last year:-

Solartron Laboratory Amplifier, Loan Pool No. 3577

Will the person who borrowed this amplifier or anyone with information on its present whereabouts, please contact Mr. G. Gallagher-Daggitt, Room 6, Building R.34, Ext 336.

Missing from the P.4 Beam Line during early December, 1964:-

Dymotape machine, model 1054, Labelled P.4.
Avometer, Model 8, Mark III, Ser. No. 10719-C-464D, has K. Knight written on it in red ink.

Information on these items to Mr. R. MacKenzie, Lab 4A, Building R.1, Ext 6158.

CONFERENCES. The Institute of Physics and the Physical Society have arranged the following conferences and symposia to be held in 1965:-

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|--------------|---|---|
| 26 Feb | : | "Cryogenics in Relation to Vacuum," at the I.E.E., London |
| 4-5 March | : | "The Physical Basis of Radioisotope Applications", at the Wantage Research Laboratory (A.E.R.E.). |
| 31 Mar-2 Apr | : | "Non-Conventional Electron Microscopy", at the University of Cambridge. |
| 5-7 April | : | "Elementary Particles," at the University of Birmingham. |
| 5-8 April | : | "Physics Exhibition," to be held at Manchester. |
| 7-9 April | : | "Stress Analysis Today," at the University of Bristol. |
| 8-9 April | : | "X-Ray Analysis," at the University of Edinburgh. |
| 12-14 April | : | "Atomic Spectra and Radiation Processes," at the Clarendon Lab., Oxford. |
| 22-23 April | : | "Examining in Physics," at London. |
| 22 April | : | "Superconducting Magnets," at the Clarendon Lab., Oxford. |
| 29-30 April | : | "Yield and Flow in Materials," at the N.P.L., Teddington. |
| 20-21 May | : | "Electrical Conduction at Low Temperatures," at the Royal Aeronautical Society, London. |
| 5-6 July | : | "Low Level Radioactivity Measurements," at the Imperial College of Science and Technology, London. |
| 12-17 July | : | "XII International Spectroscopy Colloquium," at the University of Exeter. |
| 15-22 July | : | "III International Conference on Education in Physics," at London. |
| 7-9 Sept | : | "Internal Friction in Solids," at the University of Manchester. |
| 6-17 Sept | : | "Ninth International Conference on Cosmic Rays," at the Imperial College of Science & Technology, London. |
| 15-17 Sept | : | "Nuclear and Particle Physics," at the University of Liverpool. |

Further details may be obtained from H.F. Norris, Scientific Administration, Room 24, Building R.20, Ext 484.

Machine Schedules

P.L.A.

<u>Date</u>	<u>Team</u>	<u>Experiment</u>
1-3 Feb	R.H.E.L. & Queen Mary College	Measurement of the Polarization of Neutrons from the D(p,n) 2p Reactions at 50 MeV
4-5 Feb	Maintenance	
6 Feb	Kings College London	N ₂ Magnet Wedge Detector Tests
7 Feb	U.C.L.	N ₂ Magnet Wedge Detector Tests

Internal Events

Mon., 1 Feb., 11.15 a.m., Lecture Theatre.	Nimrod Lecture Series	Dr. R.S. Gilmore (R.H.E.L.)	Elastic p-p, π -p, k-p and p-p Scattering in the Momentum Transfer range 0.0005 to 1 (GeV/c) ² .
Mon., 8 Feb., 11.15 a.m., Lecture Theatre.	Nimrod Lecture Series	Dr. A.M. Segar (R.H.E.L.)	The New K* Resonance.
Tues., 9 Feb., 3.30 p.m., Lecture Theatre.	Nimrod Proposals for Experiments	Mr. C.R. Cox and Mr. K.S. Heard (Oxford Univ.)	Polarization in K ⁻ - proton Scattering in the Momentum Region 700-1300 MeV/c.

External Events

Thurs., 4 Feb., 4.15 p.m., Univ. of Southampton.	Physics Dept. Colloq.	Mr. D.G. Crabb (Univ. of Southampton).	An Investigation of Pion Resonance at Nimrod.
Wed., 3 Feb., 5 p.m., Dept. Astrophys. Oxford.	Dept of Astrophysics Colloq.	Prof. D.E. Blackwell & Dr. A.D. Petford	Observations of the 1963 July 20 Solar Eclipse.
Fri., 5 Feb., 4.15 p.m., Clarendon Lab., Oxford.	Clarendon Lab. Colloq.	Prof. A.B. Pippard (Cavendish Lab. Cambridge).	Magnetic Breakdown.
Fri., 12 Feb., 4.15 p.m. Clarendon Lab., Oxford.	Clarendon Lab. Colloq.	Prof. E.H.S. Burhop (U.C.L.).	Recent Work and Future Prospects for High Energy Physics Studies using Nuclear Emulsion Technique.

I.E.E. MEETINGS: The following meetings will be held at the Institution of Electrical Engineers, Savoy Place, London W.C. 2 at 5.30 p.m. on the dates indicated:-

Science and General Division

Tues, 2 Feb., Lecture - "The Refurbishing of Engineers in the U.S.A.", by J.K. Wolfe.
Thurs., 11 Feb., Discussion - "The Electrometer Amplifier: Its Design and Applications."

Power Division

Wed., 3 Feb., Lecture - "A Seasonal Tariff for Domestic Supplies," by D.J. Bolton.

Electronics Division

Wed., 3 Feb., Lecture - "Impact of Computers on Network Design," by J.A.C. Bingham.

Mon.-Tues., 8-9 Feb., Conference - "Electronics Design."

Wed., 10 Feb., Lecture - "Radar - Present Position and Future Trends," by E.V.D. Glazier.

Further details from H.F. Norris, Scientific Administration, Building R.20., Ext 484.

Social News

RECORD PROGRAMME. Churchill Memorial Programme

The advertised programme (Brahms, Symphony No.4) has been postponed, and a programme of appropriate music has been organised to mark the death of Sir Winston Churchill.

This will consist of the 1st Movement of Elgar's Symphony No.1, (a memorial performance by Sir Malcolm Sargent and the B.B.C. Symphony Orchestra, recorded on the date of Churchill's death); "Pomp and Circumstance March No.1" (Land of Hope and Glory); "Funeral March" from Beethoven's Eroica Symphony and "Jupiter" (I vow to thee my country) from Holst's Planets Suite.

The programme will be given at 12.30 p.m. on Tuesday, 2 February, in the Lecture Theatre.

Dates for your diary:-

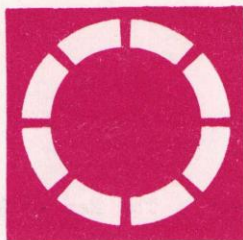
1-13 Feb., Exhibition - "International Furniture Show" at Earls Court, London.

8-12 Feb., Exhibition - "International Domestic Lighting," at Alexandra Palace, London.

Rutherford Laboratory,
29 January, 1965.

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

No. 5/65
8 Feb 65



Rutherford Laboratory Bulletin

General News

VISITORS. Dr. Bristow of the Welsh College of Advanced Technology will visit the Laboratory on Wednesday, 10 February.

Mr. Thornhill of the Central Electricity Generating Board will visit the Laboratory on Friday, 12 February.

Members of the Westfield College Physic's Society will tour the Laboratory on Saturday, 13 February.

POST-GRADUATE EDUCATION CENTRE. A series of lectures on "Ceramics" will be given in the Post-Graduate Education Centre School commencing 4 March 1965. The closing date for nominations is 19 February. Applications should be made through Division Heads to Mrs. M.C. Gould, Personnel Branch, Building R.20, Ext 575, from whom further details may be obtained.

OVERSEAS VISITS. Dr. E. Pickup, to C.E.R.N., 9-10 February, to attend meeting of Track Chamber Committee.

Dr. A.M. Segar, to the University of Heidelberg on 11 February for consultations and to give a lecture. He will also visit Deutsches Rechenzentrum, Darmstadt, returning on 15 February.

Social News

RECORD PROGRAMME. The programme for Tuesday, 9 February has been changed slightly from that given in the January issue of Orbit. It will now include four movements from Grieg's Peer Gynt Suites 1 and 2. The movements are:- "Morning": "Anitra's Dance": "In the Hall of the Mountain King" and "Wedding March". The programme will conclude with "Danse Slave," by Chabrier.

MOUNTAINEERING. Ian Clough will give a lecture, illustrated with colour slides, on the recent British-Nepalese Expedition to the Himalayas, on Thursday, 25 February at 8.00 p.m., at the Oxford College of Technology. Tickets at 3s 0d each are available from Peter Ford, Building R.12, Ext 461 or Ron Baldry, Building R.12, Ext 204.

CHRISTIAN FELLOWSHIP. The Group meets on the second and fourth Wednesday of each month in the P.L.A. Conference Room, Building R.12, 1.00-1.30 p.m. The next meeting will be on 10 February, when Dr. Philip Duke of H.E.P. Division will lead Bible Study on the First Epistle of John, Ch. 2, vv 10-22. Further details from B.E. Kingdon, R.20, Ext 6297.

Machine Schedules - P.L.A.

<u>Date</u>	<u>Team</u>	<u>Experiment</u>
8-11 Feb.	A.E.R.E.	Spark Chamber and Aperture Tests, using the N_2^1 Analysing Magnet
12-14 Feb.	Oxford Univ.	$C^{12} (p, p') C^{12}$ Reaction Studies

Internal Events

Mon., 8 Feb., 11.15 a.m., Lecture Theatre	Nimrod Lecture Series	Dr. A.M. Segar (R.H.E.L.)	The New K* Resonance
Tues., 9 Feb., 3.30 p.m., Lecture Theatre	Nimrod Proposals for Experiments	Mr. C.R. Cox and Mr. K.S. Heard (Oxford Univ.)	Polarization in K ⁻ - proton Scattering in the Momentum Region 700-1300 MeV/c
Mon., 15 Feb., 11.15 a.m. Lecture Theatre	Nimrod Lecture Series	Dr. J. Charap (Imp. Coll.)	SU ₁₂ Symmetry of Elementary Particles

External Events

Tues., 9 Feb., 2.30 p.m. 21 Banbury Rd Oxford.	Nuclear Physics Seminar	Dr. J. Ferguson (Chalk River & A.E.R.E.)	"On-Line" Computers in Nuclear Structure Research.
Tues., 16 Feb., 2.30 p.m. 21 Banbury Rd Oxford.	Nuclear Physics Seminar	Dr. A.E. Taylor (R.H.E.L.)	Coulomb Interference in High- Energy p-p Scattering

A.E.R.E.

Tues., 9 Feb., 2 p.m., Conf. Rm., Bldg. 8.9	Theor. Phys. Div. Seminar	Dr. G.A. Baker Jr. Upper and Lower Bounds for (Kings College, Analytic Functions from the London). Power Series Coefficients by the Pade Approximant Method.
Thurs., 11 Feb., 1.00 p.m., 1.30 p.m., and 2.00 p.m., Cockcroft Hall.	Films	Testing Irradiated Steel (Approx 15 mins.) Welding by Tape (Approx. 10 mins.) (Inner gate manned, outer gate open).

I.E.E. MEETINGS: The following meetings will be held at the Institution of Electrical Engineers, Savoy Place, London, W.C. 2 at 5.30 p.m. on the dates indicated:-

Science and General Division

Tues., 16 Feb., Discussion - "Universities under Fire", opened by Prof. W.E.J. Farvis.

Power Division

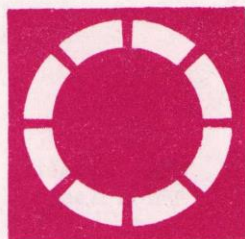
Tues., 9 Feb., Discussion - "The Effect of Variations in Supply Voltages in Industrial Processes", opened by J.A. Tatchell and H.J. Sheppard.

Electronics Division

Mon., 15 Feb., Colloquium - "The Design of Solid State Power Supplies"
(please note that this meeting is at 3 p.m. and 5 p.m.)

Rutherford Laboratory
5 February, 1965

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



Rutherford Laboratory Bulletin

No. 6/65
15 Feb 65

General News

MEMBERS OF S.R.C.

The membership of the Science Research Council was announced on Thursday, 4 February, it is as follows:-

Sir Harry Melville (Chairman); Lord Halsbury; Dr. A. Caress; Dr. D.G. Christopher; Dr. S.C. Curran; Professor G.C. Drew; Professor M.R. Gavin; Professor Sir Ewart Jones; Professor Sir Bernard Lovell; Professor K. Mather; Professor C.F. Powell and Professor J.E. Smith.

VISITOR Dr. S.P. Cornell, Chief Executive, National Academy Sciences, Washington, will visit the Laboratory on Monday, 15 February. He will be giving a lecture (see Internal Events).

POST-GRADUATE EDUCATION CENTRE. A short course of lectures on Aerosols will be held in the Post-Graduate Education Centre School on 10, 11 and 12 March 1965. The closing date for nomination is 26 February. Applications should be made through Division Heads to Mrs. M.C. Gould, Personnel Branch, Building R.20, Ext. 575, from whom further details may be obtained.

B.B.C., T.V. FILMING. A unit from the B.B.C. will be at the Laboratory on 16 and 17 February to film material on the K^0_2 experiment (N2 Beam Line).

OVERSEAS VISIT. Dr. G.H. Stafford, to C.E.R.N., 16-17 February to attend Nuclear Physics Research Committee.

Machine Schedules

P.I.A.

<u>Date</u>	<u>Team</u>	<u>Experiment</u>
15 Feb	R.H.E.L. Radiation Protection Group	Shielding Experiments
16-19 Feb		Maintenance
20-23 Feb	Oxford Univ.	$C^{12}(p,p') C^{12}$ Reaction Studies
NIMROD Cycle 8 (15.2.65.-1.3.65.)		

<u>Team</u>	<u>Beam</u>	<u>Experiment</u>	
A.E.R.E./Bristol Univ./R.H.E.L.	N2	CP Violation Check in K^0_2 Decay	Data Collection
Hydrogen Bubble Chamber Collaboration	K1	Study of K^-p Interactions	Data Collection
A.E.R.E./Southampton Univ./Univ. Coll. London	P3	Study of π^-p → $\begin{cases} n + x \\ p + x \end{cases}$ Processes	Setting up
Univ. Coll. London/ Westfield Coll.	π^-	π^-p Differential Cross Section Measurements	Setting up
Univ. Coll. London/ Bristol Univ./R.H.E.L.	P3X	Study of the η^0 Meson	Setting up

Internal Events

Mon., 15 Feb., 11.15 a.m., Lecture Theatre	Nimrod Lecture Series	Dr. J. Charap (Imp. Coll.)	SU ₁₂ Symmetry of Elementary Particles
Mon., 15 Feb., 2 p.m., Lecture Theatre	Special Lecture	Dr. S.P. Cornell (Chief Executive, Nat. Acad. Sciences, Washington)	Big Science (of interest to a general audience)
Fri., 19 Feb., 11.15 a.m., Lecture Theatre	Nimrod Lecture Series	Prof. J. Cronin (Princeton and Saclay)	CP Violation in K ₂ ⁰ Decay

There will be no lecture on Mon., 22 Feb., in the Nimrod Lecture Series.

External Events

Tues., 16 Feb., 2.30 p.m., 21 Banbury Rd., Oxford.	Nuclear Physics Seminar	Dr. A.E. Taylor (R.H.E.L.)	Coulomb Interference in High Energy p-p Scattering.
Tues., 16 Feb., 4 p.m., N.P.L., Teddington	Nat. Phys. Lab. Lecture	Mr. H.J.H. Sketch (R.A.E., Farnborough)	The British Satellite UK3 and the Measurements that are to be made with it.
Wed., 17 Feb., 5.30 p.m., Univ. Coll. London.	Inst. of Maths. Lecture	Dr. D.G. King-Hele (Space Dept., R.A.E. Farnborough)	Satellite Orbits and their Geo- physical Uses (open meeting - visitors welcome)
Thurs., 18 Feb., 4.15 p.m., Clarendon Lab., Oxford	Theor. Phys. Seminar	Dr. C. Lovelace (Imp. Coll.)	Recent Developments in Three- Particle States
Fri., 19 Feb., 4.15 p.m., Clarendon Lab., Oxford	Clarendon Lab. Colloq.	Dr. L.D. Kaplan (Jet Propulsion Labs. California U.S.A.)	Masses and Composition of Planetary Atmospheres.
Sat., 20 Feb., 11.15 a.m., Eng. Labs., Parks Rd, Oxford.	Theor. Phys. Informal Talk	Academician N.N. Bogolyubov	Many-Body Approach to Elementary Particles
Tues., 23 Feb., 2.30 p.m., 21 Banbury Rd, Oxford.	Nuclear Physics Seminar	Dr. N. Tanner	Interactions of π -mesons with Nuclei.
Wed., 24 Feb., 4.30 p.m., Brunel Coll., London.	Vacuum Study Group	G.S. Grossart (R.H.E.L.) and J.N. Chubb (Culham)	The Problems Associated with the Design and Operation of Large Vacuum Systems
Thurs., 25 Feb., 7.15 p.m., The Ship Hotel, Duke St. Reading.	Inst. of Mech. Eng. Lecture	A Repetition of the Paper by J.C.C. Stewart of the U.K.A.E.A., on "Development and Manufacture of Nuclear Fuel" will be given by Dr. J.M. Hill, Production Group of the Authority.	

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

Electronics Division

Thurs., 18 Feb., Colloquium - "Automatic Aids to Fault Finding in Computers",
joint meeting with the I.E.R.E. Computer Group - at 10.30 a.m., 2.30 p.m. and
5.30 p.m.

A.E.R.E.

Tues., 16 Feb., 2.00 p.m. Conf. Rm., Bldg 8.9	Theor. Phys. Seminar	Prof. N.H. March (Sheffield)	Momentum Distribution of Electrons in Metals
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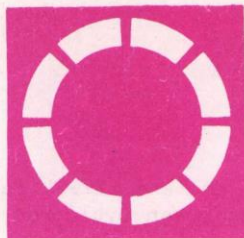
Social News

RECORD PROGRAMME. The programme for Tuesday, 16 Feb will be presented by Bob Hopgood of the Atlas Laboratory and is for the Jazz enthusiast. It covers the period from the early twenties to the early fifties although most of the programme is devoted to the often called "Golden Age" of Jazz which was of course the 1920's, and includes recordings by Kid Ory's Sunshine Orchestra, King Oliver's Creole Jazz Band, the Louis Armstrong Hot Five, Johnny Dodds Trio, etc., concluding with Kid Ory's Creole Jazz Band playing various items recorded in 1952. Amongst the numbers to be played are such jazz classics as Society Blues, 29th and Dearborn and St. James Infirmary. All are welcome, - Lecture Theatre, 12.30 p.m.

Rutherford Laboratory
12 February 1965

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

No. 7/65
22 Feb 65



Rutherford Laboratory Bulletin

General News

FILMS. A series of films will be shown in the Lecture Theatre at fortnightly intervals beginning next week. The present intention is to have the programmes at lunch times on Wednesdays and Thursdays; the actual showing times will be given in the appropriate Bulletin. This will continue until the end of May and begin again in September.

The first two programmes will be of T.V. films which are on special loan from the B.B.C. These are not normally available for screening in this country.

On 23 and 24 February, a B.B.C. I programme called "Men at the Heart of Matter" will be shown. This will be followed a fortnight later by a programme called "The Particle Hunters", which was one of the B.B.C.'s "Eye on Research" series. We have also been given for permanent retention at the Laboratory, a copy of the programme "Strangeness Minus Three" about the discovery and significance of the Ω^- particle. This will be shown within the next few months. Copies of films which are being shot at the Laboratory itself (e.g. "Forbidden Events" on the K_2^0 experiment) will be obtained.

Other films on high energy physics, accelerators etc. (e.g. "The World Within", a U.S.A.E.C. film on the new Stanford Linear Accelerator) and films on interesting work in other areas of science (e.g. Biology, Electronics, Engineering etc.) will be included in the series.

The length of programmes is likely to be about 45 minutes and, when suitable, general interest films will be added to build up the programme.

GROUP TRAVEL ABROAD. There are still about 50 places available on the charter flight to New York, for details see Bulletin No. 2/65.

An option has been secured on an Austrian Air Lines Viscount for a flight to Vienna (Austria) leaving London at 2.30 p.m. on 14 July and returning to London on 4 August 1965. The fare would be £18 per person for the return journey to include insurance, airport charges, transportation to and from London Airport and other incidentals. Anyone who is interested in this flight should contact Mrs. M.C. Gould, Personnel Branch, Building R.20, Ext 575 before 28 February.

POST-GRADUATE EDUCATION CENTRE. A series of lectures on "High Voltage Technology" (Course No.2) will be given at the Reactor School from 24-28 May, 1965. Applications should be made through Division Heads to Mrs. M.C. Gould, Personnel Branch, Building R.20., Ext 575, from whom further details may be obtained.

R.C.A. FIELD EFFECT TRANSISTORS. Information on the handling of field effect transistors, to avoid electrostatic charge damage, has been received from the manufacturers. Copies of the letter containing this information can be obtained from H.F. Norris, Scientific Administration, Building R.20, Ext 484.

UNCLAIMED MAIL. A catalogue of Electronic Control Equipment and components from W.H. Sanders (Electronics) Ltd., has been received. Would the person who requested this, please contact H.F. Norris, Scientific Administration, Building R.20, Ext 484.

OVERSEAS VISITS. Mr. J.D. Lawson, to Eindhoven, Holland, 22-24 February, to attend a meeting of the organising committee for the Eindhoven Cyclotron Colloquium.

Mr. W. Walkinshaw and Dr. R. Taylor, to C.E.R.N., Geneva, 22-24 February, for discussions on data analysis and the C.D.C. 6600 computer.

Mr. J.F. MacEwan and Mr. R.J. Prowse, to C.E.R.N., Geneva, 22-24 February for discussions on spark chamber film measuring apparatus.

Mr. N.M. King and Mr. A.J. Egginton, to C.E.R.N., Geneva, 23-25 February for discussions on beams and experimental facilities.

Machine Schedules

P.L.A.

<u>Data</u>	<u>Team</u>	<u>Experiment</u>
22-23 Feb	Oxford Univ.	$C^{12}(p,p')C^{12}$ Reaction Studies
24 Feb	R.H.E.L. Radiation Protection Group	Shielding Experiments
24 Feb	Exeter Univ.	Irradiations
25 Feb	R.H.E.L.	Irradiations
25 Feb	R.H.E.L. Accelerator Physics	Injector Emittance Measurements
26 Feb	R.H.E.L. Accelerator Physics	Deuteron Acceleration Tests
27-28 Feb	Kings College London	Elastic Scattering of Protons from Oxygen and Carbon (using the N_2^1 Analysing Magnet)

Internal Events

There will be no lecture on Mon., 22 Feb in the Nimrod Series.

Mon., 22 Feb., 2.30 p.m., Lecture Theatre, - Film - The "Nimrod Vacuum Vessel" will be shown as an introduction to a short course on Vacuum technology. All are welcome to the showing of the film.

Wed., 24 Feb., 12.45 p.m.	Film	"Men at the Heart of Matter",
Thurs., 25 Feb., 1.15 p.m.		(a B.B.C. 1 programme)
Lecture Theatre	(see General News section for full details)	

Wed., 24 Feb., 10.30 a.m. - 4.00 p.m.: Mobile Exhibition of Moulded case circuit breakers and accessories, Industrial plugs and sockets, etc., by Messrs A. Reyrolle & Co. Ltd., adjacent to Building R.20.

External Events

Tues., 23 Feb.,
2.30 p.m., 21 Banbury
Rd, Oxford

Nuclear
Phys.
Seminar

Dr. N. Tanner

Interactions of π -mesons
with Nuclei

Wed., 24 Feb.,
7.00 p.m., Reading
Technical College

The Engineers' Mr. J. Dimmick,
Guild, Western B.Sc., F.R.I.C.
Home Counties (Principal of
Branch College)

Changes in Technical
Education

The Branch Committee hope that members, particularly those with interests in training and education, will attend. All professional engineers and visitors will be welcome at this meeting.

Thurs., 25 Feb.,
4.15 p.m., Clarendon
Lab., Oxford

Theor
Phys.
Seminar

Dr. M. Hull

Nucleon-Nucleus Scattering

I.E.E. MEETINGS: The following meetings will be held at the Institution of Electrical Engineers, Savoy Place, London, W.C.2 at 5.30 p.m. on the dates indicated:-

Electronics Division

Mon., 22 Feb., - "Layer Structure of the Troposphere", J.A. Saxton, J.A. Lane,
R.W. Meadows and P.A. Matthews

Fri., 26 Feb., - Discussion - "Logarithmic H.F. Aerials", opened by P.A.C.
Morris, M.F. Radford, M. Tetford and D.E. Watt-Carter

Science and General Division

Tues., 23 Feb., Discussion - "What is Systems Engineering", opened by K.L. Smith

Power Division

Wed., 24 Feb., - "Parallel Operation of Transformers with On-Load Tap Changers
and Negative-Reactance-Compounding Control", J.M. Cowan,
K.L. Edmondson and L.L. Preston.

Social News

RECORD PROGRAMME. The record programme this week consists of one work - Stravinsky's "Petroushka". This was one of three works (the others being "The Rite of Spring" and "Firebird") commissioned by Diaghilev as ballet scores at the beginning of this century. These three scores were a turning point in the evolution of classical music. Density of orchestral writing had reached saturation point with the music of Wagner at the end of the previous century. Stravinsky's genius produced a new approach to orchestral writing and use of harmonies. The record to be played is a stereo version of a performance conducted by Stravinsky himself about two years ago.

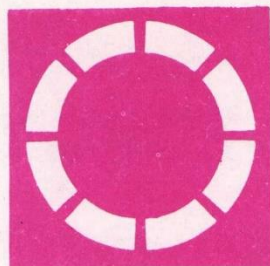
Dates for your diary:- 2-27 Mar., "Ideal Home Exhibition" at Olympia, London.

CHRISTIAN FELLOWSHIP. The next meeting of the Group will be on Wed., 24 February, 1.00 p.m.-1.30 p.m., in the P.L.A. Conference Room, R.12, when the Rev. Graham West of Trinity Methodist Church, Abingdon, will talk on "Jesus Christ - His Humanity." All are welcome. Further details from B.E. Kingdon, R.20, Ext 6297.

A.E.R.E. FILM SOCIETY. Important Notice - The programme dates have been changed to Mon./Tues., 22/23 February and NOT the usual Tues./Wed. showing, as Mr. Arthur Dulay, who will be playing to the silent films, has a prior commitment for Wednesday, 24 Feb.

VENTILATION IN THE HOME, OFFICE AND FACTORY. - a talk, which will include practical demonstrations by Mr. P. Hay, Area Technical Representative of Vent-Axia Ltd. Wed., 24 February, at the Royal Oak, Woodstock Rd, Oxford (opposite Radcliffe Infirmary) at 7.30 p.m. This is an Association of Supervising Electrical Engineers, Oxford and Districts Branch lecture, but non-members are welcome; ladies are particularly invited. The editor of the Bulletin can personally vouch for the welcome given to non-members.

No. 7/65
24. Feb 65



Rutherford Laboratory Bulletin

The following statement was issued to the Press on Tuesday, 23rd February:

RUTHERFORD LABORATORY PRESS RELEASE

A serious mechanical fault occurred on the magnet power supply of the proton synchrotron, Nimrod, on 22nd February. One of the two large alternators was severely damaged after the fracture of a pole-piece component of the rotor.

The accident involved no injury to personnel or to any other equipment.

This alternator will be out of action for a considerable time. The implications on further operation of the other alternator are being assessed. If, after inspections and measurements, its safety to run is re-affirmed, the synchrotron can be operated at half the normal repetition rate of one pulse every two seconds. This process will take at least two weeks, during which time a detailed assessment of the effect on the Nimrod experimental programme will be made.