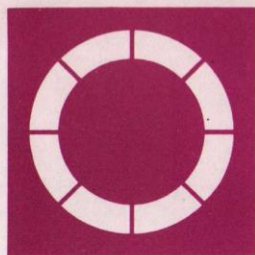


No. 1/70
5 Jan 70



Rutherford Laboratory Bulletin

General News

CHRISTMAS CARDS Don't consign your Christmas Cards to the dustbin - they are needed to raise funds in aid of research into Multiple Sclerosis. Please send them to Mrs G M Wilkinson, Chemistry Group, R34. (If you wish to save messages inside the cards, please send the front only).

S.R.C. INDUCTION COURSE. The S.R.C. Central Induction Course will be held at the Rutherford Laboratory on Tuesday and Wednesday, 6 & 7 January 1970.

EXTERNAL COURSES. The Reading College of Technology have announced details of the following short courses:-

Integrated Circuits - Logic Systems: Monday, 19.00 - 21.15 hrs, commencing 19 January 1970.

Introduction to Electronics for Mechanical Engineers: Mondays 19.00 - 21.15 hrs, commencing 19 January 1970.

Computer Programming in Algol: Tuesday, 19.00 - 21.15 hrs, commencing 20 January 1970.

Further details from Mrs R A Jeans, Building R20, Ext 555.

NEW POWER SUPPLY UNIT. An order has been placed with English Electric - AEI Industrial Controls Limited for a 1200 KW d.c. power supply unit, stable to 1 part in 10^4 . This will power the Heavy Liquid Bubble Chamber Magnet, which, after modification, will be used as a spark chamber magnet on a new beamline in Hall 3.

300 GeV NEWS. The CERN Council which met on 18 and 19 December was expected to make a decision on a site for the proposed 300 GeV accelerator. However the problem was not resolved, as Germany whilst not posing a formal condition to their participation, were exerting strong pressure for the project to be sited at Drensteinfurt, near Munster. It now appears that the problem may be solved by a special meeting of Ministers of the participating countries.

FILM NOTICE. Period 1 for 1970 commenced Monday 29th December 1969.

Colour Strip - BLUE for 35 films. Regular T.L.D. for people with surnames commencing A.B.C.D. Please check that you are wearing the correct films and that all old ones are returned.

VISITORS. About 30 Film measuring staff from the Imperial College London will visit the Laboratory on Saturday 10th January 1970.

OVERSEAS VISITS. Dr G Manning to CERN 7-10 January 1970 to attend I.S.R. Meeting.

ANGLO-AUSTRALIAN TELESCOPE EXHIBITION - a small exhibition has been set up in the foyer of R1 showing a model of the Anglo-Australian Telescope together with various display panels.

QUOTE FROM HANSARD 19 December 1969 - Rutherford Laboratory.

Mr Neave asked the Secretary of State for Education and Science whether he would make a statement on the future programme and staffing of the Rutherford Laboratory.

Mr Edward Short replied: The Science Research Council, subject to approval to its 1970-71 Estimate proposals, expects that the number of staff working at the Rutherford Laboratory will remain at about the present level and the programme now being carried out will continue.

Internal Events

Mon., 5 Jan, 11.30 a.m.
Lecture Theatre

Nimrod Lecture
Series

Dr R J N Phillips
(R.H.E.L.)

Serpukhov Surprises and/or the Asymptotic
Myth.

Wed., 7 Jan, 11 a.m.,
Conf.Rm. Bldg R.1

H.E.P. Disc
Group

S Humble
(R.H.E.L.)

Unitarity, Crossing Veneziano and All
That.

Wed., 7 Jan, 1.15 p.m.
Thurs 8 Jan, 12.40 p.m.
Lecture Theatre

Film Show
(note Change of time)

Solar Eclipse Expedition 1966, a 32 min,
colour film from U.S.A.E.C.

The story of the airborne Solar Eclipse Expedition of 1966 carried out by the U.S.A.E.C.'s Los Alamos Scientific Laboratory. Scientists travelling in a research jet aircraft, chase the moon's shadow over the South Atlantic Ocean during the actual eclipse.

Mon., 12 Jan, 11.30 a.m.,
Lecture Theatre

Nimrod Lecture
Series

Dr A Brandstetter
(Tel Aviv and R.H.E.L.)

Phenomenology of Neutral Vector Meson
Photoproduction.

Social News

CHRISTIAN FELLOWSHIP. Fri., 9 Jan., 12.30 p.m., P.L.A. Conf. Rm., R12. Dennis Williams will lead a study on the Virgin Birth of Christ. Does the Bible teach that this was fact or fiction. Why not come along and find out?

C.S.M.A. OXFORD GROUP. Clubnight, 9 Jan, 1970

"By Boat Through England", an illustrated talk by Mr A F Webster, at 8 p.m. in the clubroom, "Old White Horse", Abingdon Road, Oxford.

OPEN CHESS TOURNAMENT. The tournament has now passed the half way mark with 5 rounds completed, and, with a clear lead is last year's winner, Bill Turner. He has played 5 games won 5 and therefore has 5 points. Peter Craske is second with 4 points having lost one match out of 5 played. Six players are on the heels of Peter with $3\frac{1}{2}$ points a piece - Roy Culliford, Noel Stewart, Bill Glasgow, Fred Lunnon, Mick James and Alan Oxley.

LUNCH-TIME DARTS. The latest position up to 19 December 69 is that Alan Mason and Dave Wignall with 2 points lead the team championship and Dave Wignall with 4 wins leads the individual table.

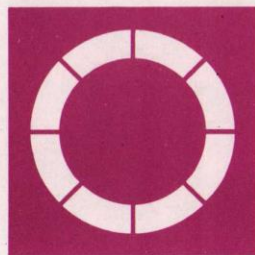
RECORD SOCIETY. Tuesday, 6 Jan., 12.45 p.m. approx., Lecture Theatre
Details will be promulgated in the Coffee Lounge.

TAIL PIECE. Another one for the collection:- Bulding RT, Rutherporol Lab., O Rotdry Berkschilton, Didcat.

Rutherford Laboratory
2. 1. 70

H F Norris Ext 484
Scientific Admin Group
Building R20

No. 2/70
12 Jan 70



Rutherford Laboratory Bulletin

General News

WANTAGE NEA: Two ten-week courses will be held at Icknield School, Springfield Road, at 7.30 p.m.
"Poetry for Pleasure" starting Tuesday 13 January.
"Local Natural History", starting Wednesday 14 January.
Further details from Mrs J Banford, 9 Foliat Drive, Wantage. Tel 3181.

PROPOSED CONFERENCE AT OHIO. Ohio University are planning to hold the fourth topical conference on resonant particles on 15-17 June 1970. A tentative programme includes the following topics: Boson Resonances, Baryon Resonances, NN and NN Reactions, Very High Energy Physics, and, Selected Theoretical Topics.

At this stage the organisers would welcome any good ideas and suggestions. Anyone who would like to participate in this conference is asked to contact B.A. Munir, Professor of Physics, within the next two months. Further information from H.F. Norris K 20.

FILM NOTICE It is Period 1. Colour Strip - BLUE for $\beta\gamma$ films. Please check that you are wearing the correct films and that all old ones are returned.

VISITORS. Thirty member of staff, R.A.O.C. Didcot will visit the Laboratory On Tuesday, 13 January.

OVERSEAS VISITS Dr A.G. Armstrong, to CERN 12-13 Jan., to attend meetings of the 300 GeV Magnet working Party.
Dr G.H. Stafford, to Czechoslovakia, 14-16 Jan., to attend meeting of Conference Committee of the European Physical Society at Prague

Internal Events

Mon, 12 Jan., 11.30 p.m., Lecture Theatre	Nimrod Lecture Series	Dr A Brandstetter (Tel Aviv & R H E L)	Phenomenology of Neutral Vector Meson Photoproduction
Mon, 12 Jan., 2.15 p.m., Lecture Theatre	Nimrod Users Meeting	1. Long Term Schedule - 2. Phase II, Hall III - 3. Resonant Extraction - 4. Progress Report on Selected Experiments	Dr N H Lipman Dr N H Lipman Mr M R Harold
Wed, 14 Jan., 11 a.m. Conf. Rm R1	H E P Disc Group	Dr E Eisenhandler (Q.M.C.)	Current Status of pp Elastic Scattering Experiment (1.5 to 4.0 GeV/c)
Wed, 14 Jan., 12.40 p.m. Thurs, 15 Jan., 1.15 p.m. Lecture Theatre	Film Show	"In the Beginning" a 28 min. colour film from the Mobil Oil Company	

This award winning film tells the story of the Grand Canyon and how it was gradually formed through the ages. By doing so, it also unfolds the history of the earth's crust. Considerable research was undertaken during the preparation of the film, the shooting of which was done on foot, by boat and from the air. Many attempts have been made to book this film in the past and this has now been achieved due to a six months advance booking - some idea of its popularity!

Fri, 16 Jan, 12.35 p.m., Lecture Theatre	Film Show (extra showing on 23 Jan)	"Insight" 38 min, colour film. The new S.R.C. film showing the various activities of the Council.
Mon, 19 Jan., 11.15 a.m., Lecture Theatre	Nimrod Proposal Lectures	1. (at 11.15 a.m.) Proposal No 79 - Total Reaction Cross-Sections for Pions on Nuclei - Dr C J Batty 2. (at 12.15 p.m.) Proposal No 76 - A Proposal to Search for the C-Violating Decay $\pi \rightarrow \pi^0 e^+ e^-$ - Dr P Grannis.
Mon, 19 Jan., 2.30 p.m., Lecture Theatre	Nimrod Lecture Series	Dr J Dowell (Birmingham) Possible Evidence for a Z^0 Resonance.

PLEASE NOTE CHANGE OF TIME FOR THIS LECTURE

External Events

Mon, 12 Jan, 5 p.m. Univ of Bristol	Phys and Geo. Phys Colloq	Dr P K Kabir (K.H.E.L.)	Do Physical Laws Prefer a Direction of Time.
Tues, 13 Jan, 2 p.m., Daresbury Laboratory	Lecture Series	R P Bajpai (Glasgow)	Corrections to Stueckelberg Theorem - Exchange Contributions and Polarisation in Photo-production.
Tues, 20 Jan, 7.45 p.m., Univ of Reading	British Computer Society Meeting	Mr I A Barron (JCL) Mr G Shingles (LSC)	Philosophy of a Simple Computer.

EVENT AT AERE

Tues, 13 Jan., 2 p.m.
Conf Rm Bldg 8.9

Theor Phys
Div Seminar

Dr W D McComb
(AERE)

A Statistical Approach to Turbulent Shear
Flow

Social News

CRISTIAN FELLOWSHIP. January 16. Bob Stokes once a missionary, then evangelist, is spending two years in the U.K. representing Trans World Radio. TWR. gained possession of Hitler's powerful propaganda transmitter sited near Monte Carlo in a remarkable way. The transmissions are now in many languages and contain the Christian gospel. You are invited to come along and hear this fascinating story at 12.30 p.m. in the Conference Room R1.

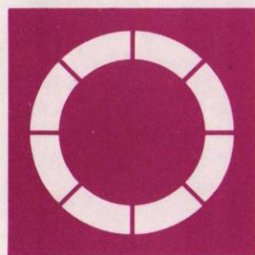
Please note that the meeting for 23 and 30 January are also in the R1 Conference room.

RECORD SOCIETY. Tuesday 13 Jan., 12.30 p.m. Lecture Theatre. Mexican Folk Music played by Tijuana type bands

Rutherford Laboratory
9. 1. 70

H F Norris Ext 484
Scientific Admin Group
Building R20

No 3/70
19 January 69



Rutherford Laboratory Bulletin

General News

NEW YEAR HONOURS 1970. We should like to offer our congratulations to the following members of the SRC who were awarded Honours in the New Years List:

Mr R St John Walker - Director for Establishment and Finance, London Office - CBE.
Mr H Rothwell - Secretary, Daresbury Nuclear Physics Laboratory - OBE.
Mr C E Franklin - Executive Officer, London Office - MBE.

VISITORS. About thirty members of staff and pupils from Donai Abbey School, Reading, will visit the Laboratory on Wednesday, 21 January.

COMPUTER NEWS. Mr H Hurst, the Computer Manager has been elected President of the SHARE European Association.

FINITE ELEMENT METHOD in Engineering and Physical Sciences. Prof O C Zienkiewicz of Swansea University will be visiting the Laboratory on Friday 6 March to give a lecture on the finite element. Anyone involved with stress analysis or yield computations and who would like to attend the lecture is asked to contact Mr C W Trowbridge, Ext 221 as soon as possible to enable a suitable venue to be arranged.

CRYOGENICS. The University of Southampton, as in previous years are holding a series of one day seminars on various aspects of cryogenics on Fridays of the Spring Term 1970, commencing 30 January. Full details from H F Norris, R20, Ext 484.

INTERNATIONAL SCHOOL OF ELECTRON MICROSCOPY. Details are to hand of an International School of Electron Microscopy to be held from 4-18 April 1970 at Erice, Sicily. The subject is Application of Electron Optics and Electron Diffraction to Material Science. Closing date for applications is 15 February. Further details from H F Norris, R20, Ext 484.

PERA CONFERENCES. "Progress with Plastics in Engineering", 21 and 22 April, 1970, and "Fibre Technology in Engineering", on 23 April 1970. Two linked conferences supported by an exhibition. Further details from Mr T F Gubbins R20, Ext 266.

MISSING EQUIPMENT. The following item of equipment has been reported missing from R18 electrical workshops.

Battery driven pistol electric drill.

Will anyone with information on the present whereabouts of this tool please contact Mr J V Lawler, R18, Ext 578

OVERSEAS VACANCIES: ESRO (details on notice boards). Physicist for Cosmic Ray Division, Noordwijk (Netherlands). CERN, (details in Room 68, R20). Physicist/Electrical Engineer, Proton Synchrotron Machine Division, Grade (9) 10; Secretary, Data Handling Division, Grade 6; Clerk Typist, Data Handling Division, Grade (4) 5; Laboratory Technician (Electronics), Nuclear Physics Division, Grade 6; Mechanics, Proton Synchrotron Machine Division and Nuclear Physics Division, Grade (5) 6.

WELFARE SERVICE. Mrs H Salmon, the Welfare Officer, Ext 299, will be on leave between 19 January and 2 February. Anyone needing welfare assistance is asked to contact Mrs Jeram on Ext 72-3061.

FILM NOTICE. It is Period 1. Colour strip - BLUE - for 88 films. Please check that you are wearing the correct films and that all old ones are returned.

OVERSEAS VISITS. Dr A J Oxley and Mr R A Lawes, to Munich, 18-20 January to attend HPD Collaboration Meeting on Data Processing for Large Bubble Chambers. Mr E W G Wallis and Mr N J Beadle to CERN, 18-20 January, on a technical visit related to the p-p experiment. Dr A Astbury and Mr G T J Arnison, to CERN, 18-20 and 18-21 January respectively, for discussions on aspects of the p-p experiment. Dr D B Scott and Mr P M Girard, to CERN, 19-20 and 19-23 January respectively to discuss requirements for a "Minimum Guidance" system for measuring bubble chamber film.

Internal Events

Mon, 19 Jan, 11.15 am Lecture Theatre	Nimrod Proposal Lecture	1 (at 11.15 am) 2 (at 12.15 pm)	Proposal No 79 - Total Reaction Cross - Sections for Pions on Nuclei - Dr C J Batty Proposal No 76 - A Proposal to Search for the C-Violating Decay $\eta \rightarrow \pi^0 e^+ e^-$ - Dr P Grannis.
Mon, 19 Jan, 2.30 pm, Lecture Theatre	Nimrod Lecture Series	Dr J Dowell (Birmingham)	Possible Evidence for a Z^0 Resonance
Wed, 21 Jan, 11 am, Conf. Room R1	HEP Disc Grp.	Dr A Love (RHEL)	A Review of the Use of Sidewise Dispersion Relations
Wed, 21 Jan, 12.40 pm, Thurs, 22 Jan, 1.15 pm, Lecture Theatre	Film Show	"The English Garden", a 22 min colour film from ICI	

/During

INTERNAL EVENTS (CONTD)

During the grim days of January only the very keen gardener ventures out, most of us are content to sit by the fire and scan through seed catalogues. This film is a reminder of days to come and shows how the Garden Centre at Syon Park was planned and grew up to the climax of a Royal Opening. Also shown is how the lakeside and the great conservatory were laid out. Jim Middleton and Percy Thrower engage our attention with their customary enthusiasm and the film should give intending visitors some idea of what is to be found at this centre.

Mon, 26 Jan, 11.30 am, Lecture Theatre	Nimrod Lecture Series	Dr R J Eden (Cavendish Lab. Cambridge)	Pomeranchuk Theorem and the Serpukhov Data on Total Cross- Sections.
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External Events

Mon, 19 Jan, 4.15 pm, Queen Mary Coll.	Theor. Phys. Seminar	Dr W E Parry (Oxford)	An Exactly Solvable Many-Body Problem: X-Ray Absorption in Metals.
Tues, 20 Jan, 2 pm, Daresbury Laboratory	Lecture Series	J H Scharenguivel (Purdue Univ.)	Test of Weinberg's Off-Mass-Shell Dependence of the $\pi\pi$ Scattering Amplitude and of the Veneziano Model.
Wed, 21 Jan, 2.30 pm, Univ. of Manchester	Theor. Phys. Seminar	Dr R Huby (Liverpool)	Spectroscopy of Unbound Levels with the aid of Weinberg's Quasi-Particles.
Wed, 21 Jan, 8.15 pm, Oxford U. Maths. Inst.	British Computer Society - Oxford Branch Discussion		"Managing a Computer Installation" (Chairman Dr K V Roberts, Members - Mr G P Parr, Lt. Col. I J Pridham, Mr W V K Sutcliffe).

EVENT AT AERE

Tues, 20 Jan, 2 pm, Conf. Room Bld. 8.9	Theor. Phys. Div. Seminar	Prof. F R N Nabarro (Witwatersrand Univ.)	The Interaction of Dislocations with a Super-Conducting Flux Line.
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Social News

RECORD SOCIETY. Tues, 20 Jan, 12.30 pm, Lecture Theatre

"Glenn Miller and his Orchestra".

Selections from "The Glenn Miller Story" and other famous hits are presented in the quite unique Miller way. The impact this man made on dance bands was, and to a certain extent is still quite remarkable and such famous numbers as Moonlight Serenade, Tuxedo Junction and String of Pearls are still played, often using his arrangements. The Miller sound is identified by the clarinet lead with four saxophones, the clarinet doubling the lead with the tenor sax an octave apart.

CHRISTIAN FELLOWSHIP. Fri, 23 Jan. Was Jesus Christ really God in human form or was He just another Eastern prophet? John Thomas will be leading a discussion on this subject, in the conference room, R1 at 12.30 pm. Why not come along and air your views.

The following "ode", penned by one of the Nimrod Mechanical Technicians is in memory of the last night shift to be manned by them. The new roster, just started is for morning and afternoon shifts only.

"Requiem in Pace"

No more calls at 0030 -
"Down to the plungers you must go"
- To slave away til break of dawn,
Wishing that swash pumps had never been born.
No More freezing in the "wee small hours"
Scrabbling round the cooling towers
To kick the valves that fill the ponds.
No more need for magic wafds
To search in darkness as before
For target parts in R24.
Today we live as other men
- Who go to bed at half past ten
To sleep and dream of marble halls,
Undisturbed by Tannoy calls
That summoned us beneath the ground
Where Nimrod's faulty parts abound.
This day I'll sleep as ne'er before
- The last day that I'll spend in bed
The DMT's night shift is DEAD.

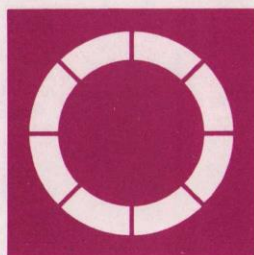
Amen.

Rutherford Laboratory
16.1.70.

H F Morris Ext 42.
Scientific Admin Group
Building R20

LDB.

No 4/70
26 January 70



Rutherford Laboratory Bulletin

General News

MINISTERIAL VISIT. The Minister of State for Education and Science, Mr. G.T. Fowler, M.P., will visit the Rutherford and Atlas Laboratories on Wednesday 28 January. He will be accompanied by Sir Brian Flowers, Chairman of the S.R.C. The visit is planned to last for the entire day.

The Minister will be taken on a tour of the Laboratory by the Director, Dr. G.H. Stafford, starting with Nimrod. The 1.5 metre liquid hydrogen bubble chamber and an experiment using electronic particle detection techniques will then be described in detail.

In the afternoon, the party is to be shown the automated procedures used in the analysis of particle reaction recorded on film from bubble chambers, the work on the proposed high field bubble chamber, and recent advances in superconducting magnet technology.

The last part of the afternoon will be spent at the Atlas Laboratory where the Minister, accompanied by Dr. J. Howlett, Director of the Laboratory, will be shown the Atlas computer and examples of the wide variety of work done in the Laboratory.

During his visit, Mr. Fowler will meet representatives of the Staff Associations and Trade Unions and of the local press.

VISITORS. Twenty-four M.Sc. Students and Staff from the Radiation Unit, University of Sussex, will visit the Laboratory on Friday 30 January.

STORES SERVICE FOR EXPERIMENTAL HALLS. Stores Section are now operating a manned store in Building R.55 next to the South West door. This store will provide a general service including the issue of items from stock and acting as a demand point for AERE stores, local purchase, and supply from stores operated running contracts. It will be a delivery point.

Recommendations for additional stocks or requests for other services should be made to Mr. P. Smithers, Ext. 6344.

FILM NOTICE. Period 2 commences Monday, 26 January. Colour strip - GREEN for $\beta\gamma$ and fast neutron films. Please change your films promptly. Six months TLD issue for people whose surnames start with E.F.G.H.

QUEST. The first issue for 1970 should now be distributed to all members of staff. If you have not received a copy please contact H.F. Norris R.20 Ext. 484. Your comments and criticisms are welcomed.

OVERSEAS VACANCIES: CERN. (details in Room 68, R.20) Assistant Computer Operations Manager, Grade (8) 9; Clerk typist, Grade 5; Secretary, Grade (5) 6; ESR0 (details on notice boards) Assistant Computer Manager, Netherlands; Engineer in the Forecast and Programmes Division, Neuilly-sur-Seine, France.

OVERSEAS VISITS. Dr. R.J. Homer, to the U.S.A, 25 January - 13 February, to attend APS meeting in Chicago, Symposium on Elementary Particles, at the Northwestern University and to visit University of Pennsylvania, Philadelphia and the P.P.A. Laboratory.

Internal Events

Mon., 26 Jan., 11.30 a.m. Lecture Theatre	Nimrod Lecture Series	Dr. R.J. Eden (Cavendish Lab., Cambridge)	Pomeroyuk Theorem and the Serpukhov Data on Total Cross-Sections.
Wed., 28 Jan., 11.00 a.m. Conf. Rm., Bldg. R.1.	H.E.P. Disc Group	Dr. G.G. Ross (RHEL)	Possible Symmetries of the S Matrix.
Wed., 28 Jan., 12.40 p.m. Fri., 30 Jan., 12.40 p.m. Lecture Theatre	Part 1 Part 2	Film Show	The Forth Road Bridge (Please see important note below on showing times)

Owing to the length of this film, 56 minutes, it has been decided to show the film in two parts. The first part will be shown on Wed. 28 Jan. at 12.40 p.m. and the second part at the same time on Fri. 30 Jan. It is not possible to show the second part on Thursday owing to a lunch time meeting.

The film itself was made as a tribute to those who planned and built the Forth Road Bridge. Filming began when work started in 1958 and shows step by step how the various difficulties were overcome. This again has been a difficult film to book owing to its great popularity. It is perhaps unusual in that it received its first showing at the Royal Society

Mon., 2 Feb., 11.30 a.m. Lecture Theatre	Nimrod Lecture Series	Dr. I. S. Hughes (Glasgow)	K^+p Interactions in the Range 0.9 - 1.5 GeV/c and Evidence for a K (2200) in K^+p Interactions at 10 GeV/c.
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External Events

Mon., 26 Jan., 4.15 p.m. Queen Mary College	Theor. Phys. Seminar	Prof. O. Penrose (Open Univ.)	A Model of Phase Transitions.
Mon., 26 Jan., 5.00 p.m. Univ. of Bristol	Phys. & Geo-Phys. Colloq.	Prof. D. R. Frankl (Penn. State Univ. & U. of Sussex)	Thermal Conductivity of Silicon in the Boundry-Scattering Regime.
Tues., 27 Jan., 2.30 p.m. 21 Banbury Rd., Oxford	Nucl. Phys. Seminar	N.W. Tanner (Oxford)	A High Energy View of Nuclear Physics.
Wed., 28 Jan., 2.30 p.m. Univ. of Manchester.	Theor. Phys. Seminar	Dr. R. Baierlein (Oxford)	Testing Gravitational Theories with Laser Ranging in the Moon.
Thurs., 29 Jan., 8.30 p.m. Banbury Rd., Oxford	Seminar in Elementary Particle Phys.	Dr. M. Bowler Dr. D. Saxon	Pion Production in π^+ Proton Collisions in the Low Energy Region (Total Barycentric Energies 1300 - 1400 MeV).
Thurs., 29 Jan., 3.00 p.m. Univ. of Cambridge	High Energy Phys. Seminar	E. Leader (Westfield Coll.)	A New Expansion of the Scattering Amplitude.
Fri., 30 Jan., 2.30 p.m. Clarendon Lab., Oxford	High Energy Theory Seminar	Dr. B. Renner (Cambridge)	Symmetrical Dual Vertex.
EVENTS AT AERE.			
Tues., 27 Jan., 2.00 p.m. Conf. Rm., Bldg. 8.9	Theor. Phys. Div. Seminar	Dr. C.J. Pethick (Oxford)	Neutron Stars.
Thurs., 29 Jan., 3.30 p.m. Conf. Rm., H.8	Nucl. Phys. Colloq.	Dr. M.J. Aitken (Oxford)	Archaeology According to Physics.

Social News

RECORD SOCIETY. Tuesday, 27 January, 12.30 p.m. Lecture Theatre.

Beethoven Symphony No. 4 in B^b Major. Opus 60. Otto Klemperer conducting the Philharmonia Orchestra
also a Beethoven Overture "The Consecration of the House".

CHRISTIAN FELLOWSHIP - 30 JANUARY. It is almost 3 years since a local evangelical church was opened in Didcot. The guest speaker was the Rev. David Pawson, Minister of Guildford Baptist Church. You are invited to come along and hear a tape recording of his half-hour Sermon, in the Conference Room, Building R.1 at 12.30 p.m.

Rutherford Laboratory
23 January 1970

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