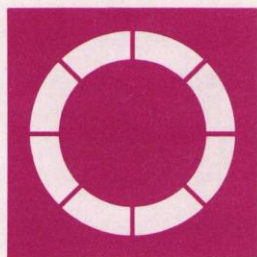


No. 31/68
9 Aug. 68



Rutherford Laboratory Bulletin

General News

BULLETIN NOTICE. With this issue weekly publication is resumed. Contributors are reminded that information for publication in the Bulletin should be with the Editor by mid-day on Wednesdays. Stop press material can be included if received by 9 a.m. on Thursday. Whenever possible contributions should be in writing and should be sent to H. F. Norris, Rm. 42, R.20.

RADIATION PROTECTION NOTICE - FILM ISSUES. Period 10 commences Monday, 9 September. Colour Strip - ORANGE for $\beta\gamma$ and fast neutron films. Please change your films promptly and return all old films as soon as possible.

SCIENTIFIC ADMIN. NOTICE. Copies of the May 1966 Press Visit booklet (white cover) and Open Day booklet (blue cover) are required by Scientific Admin. Any spares should be sent to H. F. Norris, Rm. 42, R.20.

VISITORS. A party of Science and Maths teachers attending a course at AERE will visit the Laboratory on Tuesday, 10 September.

MISSING EQUIPMENT. The following item of equipment has been reported missing from the Nimrod area:-

Sharpen Junior Stacker, RLK 27. Ser. No. 6520103

Anyone with information on the present whereabouts of this item is asked to contact Mr. J. Varley, Radiation Protection Group, R.20, Ext. 365.

CENTRUM COMMUNICATION SYSTEM - NIMROD EXPERIMENTAL AREAS. To allow for extension of the Centrum system into Hall 3 it will be necessary to modify the exchange. All master stations should be returned to the Main Control Room. A new type of master station will be issued at a later date by G. Hackett. Failure to exchange the old type of master station may result in loss of communication.

W.E.A. The following lectures have been arranged at Wantage:-

Post-War Drama	- 12 weeks commencing Mon. 23 Sept. at Icknield School
History of Folk Music and Song	- 12 weeks commencing Tues, 24 Sept. " " "
Britain's Weather and Climate	- 12 weeks commencing Wed, 25 Sept. " " "
Geology	- 24 weeks commencing Mon, 7 Oct. " " "
Modern European Literature	- 24 weeks commencing Thurs. 26 Sept at "The Guildry" St Mary's Convent

Come and meet the Tutors and Branch Officers at a meeting to be held at Icknield School, Springfield Road, Wantage on Wednesday, 11 September at 7.30 p.m. Further information from the Branch Secretary, Mrs. J. Banford, 9 Foliat Drive, Wantage. Tel. Wantage 3181.

QUEEN ELIZABETH II FELLOWSHIPS. Post-doctoral awards, tenable in an Australian University or approved research institution, normally for two years, in physical and biological sciences. Applications must be received in Canberra by 10 October.

EXTERNAL COURSES. The Reading College of Technology have announced their programme of short courses for the Autumn and Spring Terms. The courses cover:- Computer Programming (ALGOL); Colour Television; Tape Recording; Electronics for Mechanical Engineers; Servos and Control; Semiconductor Circuitry; Illuminating Engineering; Acoustic Noise; Analogue Computing.

IAEA COURSES. The International Atomic Energy Agency have published details of Nuclear Theory Courses to be held at Trieste during January - March 1969.

NUCLEONIC INSTRUMENTATION CONFERENCE AND EXHIBITION, READING, 23 - 25 SEPTEMBER. Information and registration forms have been received for this Conference, which is to be held in the Palmer Building of the University of Reading.

INTEGRATED CIRCUIT SEMINAR. Texas Instruments have arranged a seminar, "State of the Art Applications", at the 'Talk of the Town', London, on 17 - 18 September. Subjects for discussion include - Using M.O.S. in new logic systems; New T.T.L. ranges; Low power T.T.L. and System peripheral circuits.

Further information on all the above courses, conferences etc. from H. F. Norris, Room 42, R.20 Ext. 484.

OVERSEAS VISITS. Mr. R. Sheldon, to the U.S.A., 7 Sept. for approx. 4 weeks where he will visit Berkeley, Brookhaven and S.L.A.C. for discussions on problems associated with radiation damage etc.

Mr. M. J. Cawthraw, to France 9 - 13 Sept. to attend the Nuclear Instrumentation Conference at Versailles.

Dr. N. H. Lipman, to Nice and Geneva, 10 Sept. for approx. 10 days, to attend Pugwash Committee at Nice and for discussions in Geneva.

Dr. G. H. Stafford, to Geneva, 13 Sept, to attend meeting of Organising Committee for European Physical Society.

Mr. K. W. Smith and Mr. K. H. Davies, to Paris, 15 - 19 Sept. to attend 3rd Symposium on Discharges and Electrical Insulation in Vacuum.

Dr. W. A. Smith, to Paris, 16 - 19 Sept, to attend the 3rd International Symposium on Discharges and Insulation in Vacuum.

Continued

Machine Schedules

NIMROD Cycle 10 (10.9.68 - 1.10.68)
Machine Physics
High Energy Physics

<u>Team</u>	<u>Beam</u>	<u>Experiment</u>	
UCL/CERN/Brussels U.	X2/K11	K ⁻ Interactions in the Heavy Liquid B/C	Setting up
Birmingham U.	X2/K12	K ⁻ p Differential Cross-sections from 0.45 to 0.85 GeV/c	Setting up
Cambridge U./RHEL	X2/K13	Test of $\Delta S = \Delta Q$ Interactions in the Decay of K ⁰ Mesons	Data
Westfield Coll./RHEL	X2/K14	Measurement of the Non-leptonic Decay of the Parameter of the E ⁺	Setting up
Oxford U.	K10S	Study of K ⁻ p \rightarrow Neutral States	Setting up
Imp. Coll./Southampton	π^7	An Investigation of Narrow Bosons Produced in πp Collisions	Setting up
UCL/RHEL	K8	K ⁻ p Differential Cross-sections from 0.85 to 2.2 GeV/c	Setting up

P.L.A.

<u>Date</u>	<u>Team</u>	<u>Experiment</u>
9 - 16 Sept.	King's Coll. London	Backward Angle Measurement on C ¹² and O ¹⁶

Internal Events

Mon, 9 Sept. 11.45 a.m. Lecture Theatre.	Nimrod Lecture Series	Dr. L. Read (NAL - Weston)	Progress and Plans at Weston. p-p Inelastic Scattering at High Energies.
Mon, 16 Sept. 11.45 a.m. Lecture Theatre	Nimrod Lecture Series	This date will be given over to reports on the Vienna Conference. People speaking include Dr. P. K. Kabir, Dr. R. Phillips and Dr. G. Manning.	

Social News

RECORD SOCIETY. It is hoped to commence regular weekly lunch-time meetings again in October, using the new equipment recently installed in the Lecture Theatre. The Committee members are:- Graham Stevenson and Dot Hargreaves (Radiation Protection R.29), Chris Reason (P.L.A. Nuclear Physics, R.35), Bob Roberts (Safety Group, R.13), Dick Carter (Bubble Chamber Operations, R.2), and Ben Kingdon (Scientific Admin. R.20). They would be glad to hear from anyone willing to lend records or with suggestions for programmes. Please watch the Bulletin for further details.

EVENING CRICKET (20 overs)

R.2 Mech. D.O. (LATRINOS) - 109, Assorted Physicists - 57
(Assorted Physicists 57, looks more like Assaulted Physicists !! - Ed.)

FOLK SINGING. It is hoped to arrange a second concert in response to a truly overwhelming demand. See the next Bulletin for details.

CHRISTIAN FELLOWSHIP. Fri, 13 Sept, Conf. Rm, R.12 at 12.30 p.m.

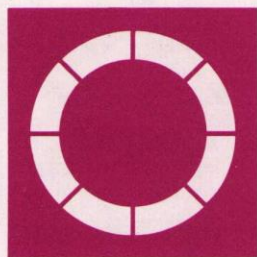
Bible Story led by Ben Kingdon, Scientific Admin. Group.

All are welcome.

Rutherford Laboratory
6.9.68.

H. F. Norris Ext. 434
Scientific Admin. Group
Building R.20.

No. 29/68
12 Aug 68



Rutherford Laboratory Bulletin

General News

BULLETIN NOTICE. This issue again covers two weeks. Contributions for the next issue should be sent to the Editor by Wednesday, 21 August.

D.C. CROSS CHANNEL TEST. Last November tests were made on running Nimrod directly from the electricity grid. Recently the CEGB in conjunction with EDF (Electricite de France) carried out cross-channel pulse power tests. The computation and analysis of the power system frequency disturbance induced during these tests were completed last week at the Rutherford and Atlas Laboratories. It is hoped to give more information on the results in the next issue of 'Quest', to be published in the early Autumn.

VISITORS. Thirty apprentices from the Plessey Company will visit the Laboratory on Sunday, 18 August.

Prof. S. Weinberg will be visiting the Laboratory on 20 or 21 August and will give a talk. The time, place and content of this talk will be announced later.

Prof. N. Gell-Mann will be visiting the Laboratory on 21-22 August. During his visit it is hoped that he will give one or more talks. Details will be circulated nearer the date of visit.

RADIATION PROTECTION NOTICE - FILM ISSUES. Period 9 commences Monday, 12 August. Colour strip - BROWN for $\beta\gamma$ films.

There will be no issue of fast neutron films due to the Nimrod shut-down. Please ensure that all old fast neutron films are returned but please retain holders.

Machine Schedules

P.L.A.

<u>Date</u>	<u>Team</u>	<u>Experiment</u>
13-14 Aug.	Manchester Univ.	Polarization of Elastic Scattering from Zr. Isotopes.
15-16 Aug.		Maintenance.
17-26 Aug.	Birmingham Univ.	Polarization Measurements.

Internal Events

Wed. 14 Aug, 11 a.m. Conf. Rm, R.1.	HEP Disc Grp.	Prof. R. G. Moorhouse (Glasgow)	Applications of Sidewise Dispersion Relations.
Thurs. 15 Aug, 2 p.m. Conf. Rm, R.1.	Special Lecture	Dr. C. Hargrove (Argonne)	A Vidicon Spark Chamber Spectrometer and the Measurement of the $pp\pi^+\pi^-$ Cross-section.
20-22 Aug., - Please see 'General News' for details concerning talk(s) by Prof. Gell-Mann and Prof. Weinberg.			
Fri. 23 Aug, 11.30 a.m. Lecture Theatre	Special Lecture	Dr. B. Kenney (Berkeley)	Recent work on K_L^0 and Eta Decay.
Mon. 26 Aug, 11 a.m. Lecture Theatre	HEP Disc Grp.	Prof. M. J. Moravcsik (U. of Oregon)	How to test Conservation Laws and Determine Quantum Numbers Experimentally.

Social News

EVENING CRICKET (20 overs), 25 July.

R2 Mech. D.O. (Latrinos) - 170 for 3.
(Mike Gates; 58, Terry Keaney 50 n.o.; Tony Cash 31 n.o.)
Norris Brothers (Reading) Ltd. - 130 for 5.

The Latrinos topped their previous highest score by 10 runs. This raised the question as to whether they are improving, or, is the opposition getting weaker?

CHRISTIAN FELLOWSHIP. Fri., 16 Aug., Conf. Rm., R.12 at 12.30 p.m.

Jimmy Darius, P.L.A. Workshops will lead Bible Study on "Assurance".

A recording of A Billy Graham Sermon, "Why I Believe the Bible to be the Word of God", will be given on Fri, 23 Aug., Conf. Rm. R.12 at 12.30 p.m.

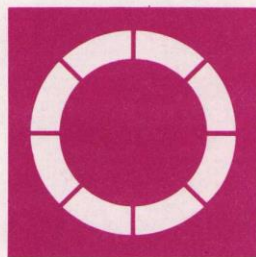
All are welcome.

H. F. Norris, Ext. 1/84
Scientific Admin. Group
Building R.20.

Rutherford Laboratory

9.3.68.
vlp.

No. 30/68
26 Aug 68



Rutherford Laboratory Bulletin

General News

BULLETIN NOTICE. This issue again covers a period of two weeks. Weekly publication will be resumed with the next issue dated 9 September and contributions for this should be sent to the Editor by Wednesday, 4 September.

VISITORS. Thirty members of the Institute of Production Engineers will visit the Laboratory on Thursday, 5 September. Thirty members of the Oxford University Graduate Society will visit the Laboratory on Saturday 7 September.

RADIATION PROTECTION NOTICE - FILM ISSUES. It is Period 9. Colour Strip - BROWN for $\beta\gamma$ films. Next film issue - 9 September.

OVERSEAS VISITS. The following will be attending the XIV International Conference on High Energy Physics at Vienna on the dates mentioned:-

Dr. D.V. Bugg, 24 Aug - 5 Sept.
Dr. G. Manning and Dr. T.G. Walker, 24 Aug - 8 Sept.
Dr. T.G. Pickavance, Dr. P.K. Kabir, Dr. R.J.N. Phillips and Dr. J.E. Paton, 27 Aug - 5 Sept.
Dr. G.H. Stafford, 27 Aug - 11 Sept.

Mr. N.M. King and Mr. T.R. Walsh to DESY, Hamburg, 27 - 29 Aug, to attend a sub-committee meeting of the 300 GeV ECFA Steering Group.

Mr. L. Phillips, Mr. V. Marren, Mr. W. Clark, Mr. W.G.A. Russet and Mr. J.A. Hawthorne, to CERN, 28 Aug for supervision and installation of S.70 Beam Line Apparatus in connection with Oxford/RHEL/Liverpool experiment at CERN.

Mr. W.W. Woodall to CERN, 1 - 3 Sept. on administrative liaison business.

Dr. G. Shaw, to Hungary, 5- 12 Sept. to attend Symposium on Hadron Spectroscopy at Keszthely.

Machine Schedules

P.L.A.

<u>Date</u>	<u>Team</u>	<u>Experiment</u>
27 Aug	RHEL	Detector Tests
28 - 29 Aug		Maintenance
30 Aug - 8 Sept.	QMC and Queen's Univ. Belfast	Depolarization Parameter Measurement in (p - d) Elastic Scattering.

Internal Events

Mon. 26 Aug, 11-12.30 p.m., Lecture Theatre	HEP Disc. Grp.	Prof. M.J. Moravosik (U. of Oregon)	How to Test Conservation Laws and Determine Quantum Numbers Experimentally.
Wed. 28 Aug, 11 a.m. Conf. Rm., R.1.	HEP Disc. Grp.	Dr. A. Chistal (Orsay)	Pade Approximation (There will be no talk in the HEP Disc. Grp series on Wed, 4 Sept.).
Mon. 9 Sept., 11.45 a.m. Lecture Theatre	Nimrod Lecture Theatre	Dr. L. Read (N.A.L. Weston)	Progress and Plans at Weston. p-p Inelastic Scattering at High Energies.

Details of the above, which is the first in the new series of Nimrod Lectures are correct at time of going to press. Confirmation or alterations will be given in the next issue due to be published on Friday, 6 Sept.

Social News

CAMPANOLOGISTS. It is proposed to form an SRC/UKAEA bellringing society. Interested ringers in the Rutherford Laboratory are asked to contact Mr. N.J. Diserens, Building R.50, Ext: 6650.

WOMEN'S HOCKEY. The SRC Sports and Social Association has received an invitation from the Civil Service Women's Hockey Association to enter an SRC team in a women's seven-a-side Departmental Hockey Tournament at Chiswick on Tuesday, 15 Oct. Entry forms have to be submitted to the organisers by 23 September. Come on ladies, if any of you would like to play, please get in touch with Mr. E.W. Clark, Ext: 6290, not later than 6 September.

CHRISTIAN FELLOWSHIP. Fri. 30 Aug: Prayer Meeting, led by Ray Powell, Accounts Group.
Fri. 6 Sept: Bible Study on "Separation"
Both meetings at 12.30 p.m. in the PLA Conf. Rm., R.12. A warm invitation is extended to all.

Rutherford Laboratory
23.8.68.

STOP PRESS

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

VACATION AND SANDWICH COURSE STUDENTS. A tour of the Atlas Laboratory has been arranged for students on Wed. 28 Aug. Anyone interested should be at R.1 main entrance at 13.50 hrs. Further information from Mr. F. Harden, R.2, Ext: 6114.