

Rutherford Laboratory Bulletin

No. 26/66
4 July 66

General News

VISITORS. A party of student teachers from Summerfield College, Kidderminster, will visit the Laboratory on Tuesday afternoon, 5 July.

VISITS ABROAD. Mr. J.M. Dickson will be attached to the Proton Linear Accelerator Group at the University of Minnesota for three months commencing 7 July. He will attend the Los Alamos Linear Accelerator Conference on 2-7 October before returning to the Laboratory.

CONFERENCES. The Institute of Physics and the Physical Society will hold a Conference on 'Nuclear and Particle Physics' at the University of Glasgow on 21-23 September, 1966. Contributions are invited by 29 July.

The First "International Congress on Photography and Cinematography in Industry and Technology" will be held in Cologne on 6-8 October, 1966.

Further details of the above events may be obtained from B.E. Kingdon, R.20, Ext 6297.

DEMONSTRATIONS. There will be a demonstration 5-6 July in Building R.8 of the Edwards High Vacuum LTS Helium Leak Detector. On 6 July there will be a demonstration of the Dawe Instruments Ltd. Ultrasonic Leak Detector and other ultrasonic nondestructive testing equipment. For further details ring D.A. Cragg Ext 6276.

UNCLAIMED MAIL. Letters received from Smith's Industries Ltd., (Sectronic Pulse Generator) and G.E. Bradley Ltd., (Lasers and electronic test equipment), resulting from enquiries at the I.E.A. Exhibition, may be claimed from B.E. Kingdon.

Machine Schedules

P.L.A.

<u>Date</u>	<u>Team</u>	<u>Experiment</u>
4-6 July		Maintenance
7-11 July	RHEL and QMC (2)	Neutron Spectra by Time-of-Flight
12-17 July	RHEL and KCL	Inelastic Scattering on Mg^{24} at 50 MeV

Internal Events

Mon, 4 July 11.15 am, Lecture Theatre	Nimrod Lecture Series	Dr. A.M. Segar (R.H.E.L.)	A Study of η Decay in the Saclay 80 cm. Bubble Chamber.
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Tues, 5 July, 11 am, Lecture Theatre: Discussion meeting of the SOC Booster Feasibility Study Group. (Open to all).

Tues, 5 July, comm. 2.45 pm, Lecture Theatre. Nimrod Proposal Lectures:

- No. 26 (revised). Experimental Study of the Σ Beta Decay. (Dr. A. Astbury).
No. 27 (revised). Polarisation of Σ produced in n - p Collisions. (Dr. A. Astbury)
Nos. 39 and 41. π Interactions in the Hydrogen Bubble Chamber over the Momentum Range 600-1200 MeV/c. (Dr. M. Bowler, Oxford).

Wed, 6 July 11.15 am, Lecture Theatre	Special Lecture	Dr. W.R. Frisken (Brookhaven)	Backward Elastic Scattering of High Energy Pions by Protons.
Wed, 6 July 2 pm, PLA Conf. Rm, R.12.	PLA Division Seminar	Dr. R. Taylor (R.H.E.L.)	On-line Applications of Computers. (Repeat of Applied Physics Series lecture)
Thurs, 7 July 3.30 pm, Lecture Theatre	Applied Physics Series	Dr. W.D. Allen (R.H.E.L.)	Electrostatic Generators and the Oxford Project.

Social News

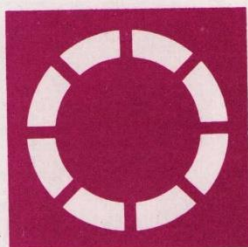
RECORD SOCIETY. Tuesday, 5 July, 12.30 pm, Lecture Theatre:

Handel: Organ Concertos Nos. 5, 6, 7, 8, played by Carl Richter on the organ of St. Mark's, Munich.
(This will be the last concert before programmes start again in the Autumn)

CHRISTIAN FELLOWSHIP. Bible Study ("Titus"), 12.30 p.m., Thurs, 7 July, PLA Conf. Rm, R.12.

Rutherford Laboratory
1.7.66.

B.E. Kingdon
Scientific Administration Group
Building R.20.



Rutherford Laboratory Bulletin

No. 27/66
11 July '66

General News

VARIABLE ENERGY CYCLOTRON. The following announcement has been received from Mr. J. D. Lawson:-

A beam of 25 MeV H_2^+ ions was extracted from the Harwell Variable Energy Cyclotron on June 30th. Although much remains to be done before beams are available at full current and full energy, the preliminary results are encouraging.

VISITORS. A party of 20 students from Brune Park County High School, Gosport, will visit the Laboratory on Saturday afternoon, 16 July.

VISITS ABROAD. Dr. L.C.W. Hobbs, Dr. J.J. Thresher, Dr. G. Manning, Dr. M.A.R. Kemp, Dr. R.H. Thomas, Mr. N.M. King, and Mr. E.J.N. Wilson will attend a working group meeting of the European Committee for Future Accelerators (ECFA) on 11-12 July at CERN.

Dr. A.M. Segar, Dr. L.K. Rangan and Dr. J.R. Smith will visit Saclay on 12-13 July for discussions with the Saclay Bubble Chamber Group on the results of the Eta experiment.

Dr. J.J. Thresher has been invited to attend the Summer Study Group at Berkeley on the proposed 200 BeV American Accelerator. He will be away for five weeks, commencing 16 July.

LECTURE COURSE. Mr. Bruno Renner of Cambridge University will give a short course of about six lectures on "The Applications of Current Algebras". The series will begin at 11.20 a.m. on Monday, 18 July in the Lecture Theatre and will continue through that week. Further details will be given in next week's Bulletin, or may be obtained from Mr. D. Morgan, Building R.1, Ext. 6139.

ATLAS LECTURE SERIES. Professor Germund Dahlquist of the Royal Institute of Technology, Stockholm, will be a guest of the Atlas Computer Laboratory for the 4-week period 18 July - 13 August. During this time he will give a course of lectures on "Selected Problems in the Numerical Treatment of Ordinary Differential Equations". Further details will be given in next week's Bulletin.

SAFETY GROUP LECTURE. A lecture on "Eye Care" will be given by Dr. J.C. Evans of A.E.R.E. Medical Division, at 10.30 a.m. on Tuesday, 12 July in the P.L.A. Conference Room, R.12. The lecture will be repeated on Tuesday, 26 July (same time and place).

DERELECT CARS. Will the owners of cars Reg. No. STO 96, in Building R.1 Car Park, and Reg. No. 6636AX33F (France), in Building R.25 Car Park, please remove these cars from the Laboratory. Disposal arrangements will be made by Transport Section if not removed by 25 July 1966.

Machine Schedules

P.L.A.

Date	Team	Experiment
11-12 July	RHEL and QMC (2)	Neutron Spectra by Time-of-Flight.
12-17 July	RHEL and KCL	Elastic and Inelastic Scattering from Mg^{24} at 50 MeV

Events

Mon. 11 July 11.15 am, Lecture Theatre	Nimrod Lecture Series	Prof. M.H. Ross (Michigan Univ).	Diffraction Dissociation
ATLAS LABORATORY.			
Mon. 11 July 2.30 p.m., Atlas Lab. Conf. Room	Talk	Dr. S.J. Aarseth (Cambridge Univ. Observatories)	The N-Body Problem in Astronomy
A.E.R.E. Thurs. 14 July 10.30 am, Conf. Rm. Hanger 8	Nuc. Phys. Division Seminar	Dr. J.P. Schiffer (Argonne)	A Search for Stable Fractionally- Charged Quarks

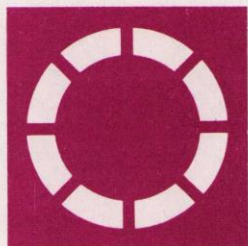
See "General News" for details of a Safety Group Lecture, also two Lecture Series at the Rutherford and Atlas Laboratories.

Social News

CHRISTIAN FELLOWSHIP. The next meeting will be on Thursday, 14 July at 12.30 pm, in the P.L.A. Conference Room, R.12, when the Rev. John Moore of Christchurch, Abingdon, will speak on "The Grace of God - how much can one get?". All are welcome. Further details from B. E. Kingdon, R.20, Ext. 6297.

Rutherford Laboratory
7.7.66

B. E. Kingdon
Scientific Administration Group
Building R.20.



Rutherford Laboratory Bulletin

No. 28/66
18 July 66

General News

ORION COMPUTER Will all those persons who have manuals pertaining to ORION, which they no longer require, please return them to Mr. F. Price (R.1 Room 2-33) as soon as possible.

MISSING EQUIPMENT The following items of equipment have been reported missing from Nimrod Main Control Room:

GEC 16" Portable Green Orbital Fan, AERE No. 16389, painted light green, identified by "MCR" in red lettering
Oscilloscope Trolley, painted grey, identified on RH side "NIMROD OP's (Elec) No.4" lettering in white
Oscilloscope Trolley, painted grey, identified on RH side "NIMROD OP's (Elec) No.5", lettering in white

Anyone with information on these items are asked to contact Mr. D.E. Gray Ext 215 or R.2 Administration Office Ext 6615/6205.

ATLAS LECTURE SERIES As mentioned in last week's bulletin, Professor Germund Dahlquist of the Royal Institute of Technology, Stockholm, will be a guest of the Atlas Laboratory for the 4 week period, 18 July - 13 August. Anyone wishing to meet him is asked to ring Ext. 6296. During this period he will give a course of ten lectures on "The Numerical Treatment of Ordinary Differential Equations". These will be given at 11.15 a.m. and 2.00 p.m. on the following dates: 25 July, 2, 4, 9 and 11 August. Details of each lecture will be given in the appropriate bulletin.

OVERSEARS VISIT. Mr. Gallagher-Daggitt and Dr. J.W. Bittner, to CERN 17-23 July for discussions.

Machine Schedules

P.L.A.

Date	Team	Experiment
18-20 July		Maintenance
21 July	RHEL Chemists	Isomer Ratios
22-25 July	Birmingham Univ.	Detector Tests.

NIMROD Period 2 - Cycle 3 (20.7.66. - 8.8.66.)

Machine Physics
High Energy Physics

Team	Beam	Experiment	
AERE/Southampton/ UCL	P3	A study of the $\pi^- + p \rightarrow \begin{smallmatrix} n + x \\ p + x \end{smallmatrix}$	Data
Imperial Coll	#1	A study of the $\phi \rightarrow e^+ + e^-$ decay	Data
Hydrogen Bubble Chamber Collaboration K1		$\pi^- d$ Interactions	Data
RHEL/Oxford U.	K7	$\pi^- p$ polarisation measurements	Data
AERE/QMC	4	A study of $\Sigma \beta$ decay	Setting up

Internal Events

Lecture Course. Mr. Bruno Renner of Cambridge University will give a short course of seven lectures on "The Applications of Current Algebras". The accent will be on relevance to Experiment and it is hoped to maintain an informal atmosphere with opportunity for discussion and questions in the course of the talks.

The lectures will take place in the Lecture Theatre at the following times:

Monday 18 July - 11.20 a.m. and 2 p.m.
Tuesday 19 July - 11.20 a.m.
Wednesday 20 July - 11.20 a.m. and 2 p.m.
Thursday 21 July - 2 p.m.
Friday 22 July - 2 p.m.

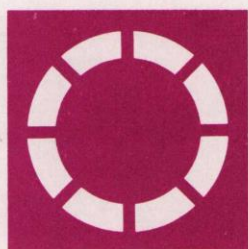
Mon, 25 July 11.15 a.m., Lecture Theatre	Nimrod Lecture Series	Prof. R.H. Dalitz (Oxford)	The Quark Model
EVENT AT AERE Thurs, 21 July, 2 p.m., Conf. Rm, Bldg 8.9	Joint Applied Maths Seminar	Prof. W. Cheney (Univ. of Texas)	Least Squares Rational Approximations

Social News

CHRISTIAN FELLOWSHIP. Bible Study ("Titus") 12.30 p.m., Thurs, 21 July, P.L.A. Conf. Rm, R.12. All are welcome.

Rutherford Laboratory
15.7.66.

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



Rutherford Laboratory Bulletin

No. 29/66
25 July 66

General News

WESTMINSTER ABBEY. 900th Anniversary - Science Exhibition - August-September, 1966.

The Laboratory in association with the UKAEA is staging several exhibits on Rutherford in this exhibition. Volunteers are required to look after these exhibits and an approach has been made to most of the E.O.s, A.E.O.s, and S.S.A.s, in the Laboratory. The response to this appeal has been disappointing, but it is hoped that the people concerned may still feel it is worthwhile responding to it.

Members of staff who have received a note about this exhibition are asked to reply as soon as possible, even if they do not wish to volunteer.

Any enquiries regarding the duties involved should be made to Dr. P.J. Duke, Building R.1, Ext. 562/567/6696. General enquiries should be made to H.F. Norris, Building R.20, Ext 484/6297 to whom the return part of the note should be sent as soon as possible.

SAFETY GROUP LECTURE. A lecture on "Eye Care" will be given by Dr. J.C. Evans of AERE Medical Division at 10.30 a.m. on Tuesday, 26 July in the P.L.A. Conference Room, R.12 This is a repeat of the lecture given on 12 July.

Machine Schedules

P.L.A.

<u>Date</u>	<u>Team</u>	<u>Experiment</u>
26 July	Accelerator Physics	
27 July-1 Aug	Queen's Univ., Belfast & Westfield College	(p,t) Reactions on Mg ²⁶

External Events

Thurs, 28 July 2 p.m., Conf. Rm, Bldg 8.9	Joint Applied Maths Seminar	Prof. G. Dahlquist (Stockholm)	The Acceleration of Convergence
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Internal Events

Mon, 25 July, 11.15 a.m. Lecture Theatre	Nimrod Lecture Series	Prof. R.H. Dalitz	The Quark Model
Mon, 25 July, 11 am and 2 pm Atlas Lab, Conf. Rm.	Atlas Lecture Series	<u>Lectures 1 & 2</u> Variational Equations and Differential inequalities. General <u>a posteriori</u> error analysis for one single differential equation.	

(More details of further lectures next week)

Social News

CHRISTIAN FELLOWSHIP Prayer Meeting. 12.30 p.m. Thursday, 28 July, P.L.A. Conf. Rm, R.12.

Rutherford Laboratory
22.7.66.

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