

# RUTHERFORD LABORATORY BULLETIN

No. 120 for the week commencing Monday, 13th May, 1963

## VISITORS

The following American scientists are expected to visit the Laboratory on the dates given below. Anyone wishing to see them should contact Mr. J. D. Lawson, Ext. 6128.

13th and 14th May	Dr. R. Smith	U.C.R.L., Berkeley
15th, 16th, 17th May	Dr. E. Kelly and Dr. H. Grunder	U.C.R.L., Berkeley
20th May	Dr. F. Howard	Oak Ridge National Lab.

## VISITS ABROAD

Mr. M. Snowden, Head of the Bubble Chamber Group will visit C.E.R.N. from the 14th to 17th May for discussions on the  $1\frac{1}{2}$  meter Bubble Chamber and fast film measuring devices.

Dr. C. M. Fisher and Mr. J. M. Scarr of the Bubble Chamber Group will visit C.E.R.N. from the 15th to 18th May to attend a progress meeting on heavy liquid bubble chamber experiments.

## P.L.A.

The programme scheduled for the P.L.A. during the current week is as follows:-

<u>Date</u>	<u>Team</u>	<u>Experiment</u>
13th-18th May	Belfast University and Westfield College	(p-d) polarisation at 50 MeV

## CONFERENCES

The Institute of Physics and the Physical Society will hold the following meetings on the dates indicated below:-

Symposium on "Education in Vacuum Science and Technology" (Brunel College, Acton, 29th May, 1963)

Conference on "High Magnetic Fields, their Production and their Applications" (Oxford Univ., 10th-12th July, 1963)

Conference on "Low and Medium Energy Nuclear Physics" (Manchester Univ., 4th-6th September, 1963)

Conference on "Plasma Physics" (Culham Lab., 24th-27th September, 1963)

Details of the above events and application forms for the conference on "High Magnetic Fields" may be obtained from H. F. Norris, Building R.32, Ext. 484.

## INTERNAL EVENTS

Mon., 13th May, 11.15 a.m., Conf. Rm., Bldg. R.1	Nimrod Lecture Series	Dr. G. Chadwick (Oxford Univ.)	Proposed 3.5 GeV/c K <sup>-</sup> -Experiments on the M2 Beam at CERN.
Tues., 14th May, 5.30 p.m., Conf. Rm., Bldg. R.1	Accelerator Lecture Series	Dr. D. J. Clarke (1st Lect. in new series)	Sector Focussed Cyclotrons -I History and Principles.
Wed., 15th May, 2 p.m., Conf. Rm., Bldg. R.12	P.L.A. Group Seminar	Mr. R. S. Gilmore (Queens Univ., Belfast)	Measurement of the Cross-Section for p-p Scattering at 90° c.m. from 20 to 50 MeV.
Thurs., 16th May, 5.30 p.m., Conf. Rm., Bldg. R.1	Evening Lecture Series	Prof. H. Bondi (King's College)	Special Relativity.

Contd. Overleaf

# RUTHERFORD LABORATORY BULLETIN

## EVENTS AT A.E.R.E.

"Power from Plutonium", a 25-minute U.K.A.E.A. colour film, will be shown in the Cockcroft Hall at 10.15 a.m. and 1.15 p.m. on 13th May, and at 1.15 p.m. on 14th May. (The outer gate will be open and the inner gate manned for the 1.15 p.m. performance on both days.)

Wed., 15th May, S.S.P. Dr. H. London Refrigeration by Mixing of  
2 p.m., Rm. 1.12, Divn. He<sup>3</sup> and He<sup>4</sup>.  
Hangar 7. Colloq.

Friday 17th May: Conference on "Applied Photography in the U.K.A.E.A.", by the British Photographic Society and the Photographic Group, A.E.R.E., in the Cockcroft Hall. (Further information may be obtained from Mr. C. J. V. Roberts, Research Labs., Kodak Ltd., Harrow, Middlesex.)

## EXTERNAL EVENTS

13th-17th May: International Industrial Photographic and Reprographic Exhibition, Earls Court, London. (Tickets are available from H.F. Norris, Building R.32, Ext. 484.)

Tues., 14th May, Theor. Dr. E. J. Squires Can I Calculate the Mass of  
2.30 p.m., Imperial Physics (Manchester Univ.) the Photon?  
College, London. Seminar

15th and 16th May: Open Days at the National Physical Laboratory, Teddington. (A few tickets and programmes are available from H. F. Norris, Building R.32, Ext. 484.)

Fri., 17th May, Theor. Dr. J. C. Polkinghorne High Energy Behaviour in  
3 p.m., Cavendish Physics (Cambridge Univ.) Perturbation Theory.  
Lab., Cambridge Seminar

21st-24th May: Radio and Electronic Component Show, Olympia, London. (Tickets may be available later from H. F. Norris, Building R.32, Ext. 484.)

H. F. Norris

Building R.32

AKF

# RUTHERFORD LABORATORY BULLETIN

No.121 for the week commencing Monday, 20th May, 1963

## SITE INCIDENT

During the night of 15th-16th May, a fire was discovered in Building R.8. There were no injuries to members of staff. Enquiries are now in progress.

## VISITORS

A party of 40 members of the Oil and Colour Chemists' Association will visit the Laboratory on Monday, 20th May.

Mr. E. Shelton of the Accelerator Department, Brookhaven National Laboratory, U.S.A., will visit the Rutherford Laboratory from 27th to 30th May, for discussions on power supplies. Anyone wishing to see him should contact Mr. J. C. Louth, Ext.6610.

## VISITS ABROAD

Mr. J. Sparrow of the Theoretical Physics Group will visit C.E.R.N. from the 20th to 22nd May for discussions on heavy liquid bubble chamber programmes.

## P.L.A.

The programme scheduled for the P.L.A. during the current week is as follows:-

<u>Date</u>	<u>Team</u>	<u>Experiment</u>
23rd-28th May	Queen Mary College	Measurement of "A" parameter at 50 MeV.

## NATIONAL SAVINGS

The current National Savings Cycle for monthly paid staff ends on 31st May and Certificates will be ready for collection from the Cash Office, Bldg. R.20 on Monday, 10th June. The next Cycle, No.66, commences in June and the new purchase price of each Certificate will be £1. Deductions are made from salary and the Cycle runs for six months. In view of the alteration in the purchase price of these Certificates, all monthly paid employees who are interested, whether already a member or not, must complete new enrolment and deduction authority forms which can be obtained from the Cash Office in Bldg.R.20. Both these forms must be completed and returned to the Cash Office by Friday, 31st May.

## SAFETY LECTURE

Mr. G. Hickling of the Industrial Welfare Society will give a lecture demonstration on Manual Lifting and Handling in the Main Conference Room, Building R.1 at 10.15 a.m. and 2 p.m. on Wednesday, 22nd May. The duration will be approximately 1½ hours.

## INTERNAL EVENTS

Mon., 20th May, 11.15 a.m., Conf. Rm., Bldg.R.1	Nimrod Lecture Series	Dr. F. Heymann(Univ. Coll.) or Prof. E. Bellamy (Westfield Coll.)	A Proposal to Measure the Differential Cross- section of $\pi^+$ -p Elastic Scattering near 2 GeV.
Tues., 21st May, 5.30 p.m., Conf. Rm., Bldg.R.1	Accelerator Lecture Series	Dr. D. J. Clarke	Sector Focussed Cyclotrons - II. Today's Machines and Tomorrow's Meson Factories.
Wed., 22nd May, 3.30 p.m., Conf. Rm. No.4, Bldg.R.1	Colloquim	Mr. D. J. Warner	Time of Flight Techniques and Accelerator Physics on the P.L.A.
Mon., 27th May, 11.15 a.m., Conf. Rm., Bldg.R.1	Nimrod Lecture Series	Prof. J. Hamilton (Univ. Coll.)	Pion-Nucleon Scattering.

Building R.32  
17th May, 1963

H. F. NORRIS

# RUTHERFORD LABORATORY BULLETIN

No. 122 for the fortnight commencing Monday, 27th May, 1963

## VISITORS

✓ Professor H. Kabir, Indian Minister for Science and Culture, will visit the Rutherford Laboratory on 27th May.

✓ Dr. E. J. Lofgren, Director of Bevatron Operations at the Lawrence Radiation Laboratory, Berkeley, will visit the Laboratory from 27th to 30th May.

✓ Dr. C. Germain of C.E.R.N. will visit the Laboratory on 29th May for discussions on particle separators with Dr. W. A. Smith, Ext. 6600.

✓ Dr. D. R. F. Cochran of the Los Alamos Laboratory will visit the Laboratory on 31st May for discussions on linear accelerators with Mr. A. Carne, Ext. 206.

## VISITS ABROAD

✓ Dr. J. Howlett, Director of the Atlas Computer Laboratory, will visit C.E.R.N. from 30th May till 6th June as the U.K. representative of a working party to discuss the future computing requirements of C.E.R.N.

## P.L.A.

X The programme scheduled for the P.L.A. during the next fortnight is as follows:-

<u>Date</u>	<u>Team</u>	<u>Experiment</u>
27th-28th May	Queen Mary College	Measurement of "A" parameter at 50 MeV
29th May-4th June	Birmingham University	Proton-Nuclei Polarization Measurements

## INTERNAL EVENTS

Mon., 27th May, 11.15 a.m., Conf. Rm., Bldg. R.1.	Nimrod Lecture Series	Prof. J. Hamilton (University Coll.)	Pion-Nucleon Scattering.
Tues., 28th May, 5.30 p.m., Conf. Rm., Bldg. R.1.	Accel. Lecture Series	Dr. J. Coupland	Sector-Focussed Cyclotrons - III. Aspects of the V.E.C. (Chemists' Cyclotron).
Wed., 29th May, 2 p.m., Conf. Rm., Bldg. R.12.	P.L.A. Group Seminar	Mr. M. K. Craddock	Measurement of the Polarization in p-He Scattering.
Mon., 10th June, 11.15 a.m., Conf. Rm., Bldg. R.1.	Nimrod Lecture Series	Dr. C. Lovelace (Imperial Coll.)	Scattering Theory of Unstable Particles.

## EVENTS AT A.E.R.E.

Tues., 28th May, 2 p.m., Conf. Rm., Bldg. 8.9.	Theor. Physics Seminar	Dr. R. J. Eden (Cambridge Univ.)	Dispersion Theory and the Nuclear Many-Body Problem.
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## EXTERNAL EVENTS

27th-31st May: 7th International Instrument Show and 1st Environmental Engineering Symposium, at the B. and K. Laboratories, 4 Tilney Street, Park Lane, London W.1. (Admission by ticket only, obtainable from B. and K. Laboratories Ltd., 57 Union St., London S.E.1. Tel.: HOP 4567).

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# RUTHERFORD LABORATORY BULLETIN

Tues., 28th May, 2.30 p.m., Imperial College, London.	Theor. Physics Seminar	Dr. C. Lovelace	Rearrangement Processes in 3-particle Scattering.
Wed., 29th May, 4.30 p.m., University College London.	Physics Dept. Seminar	Prof. J. Barrat (University of Caen)	Theory of Optical Pumping.
Thurs., 30th May, 2.30 p.m., Cavendish Lab., Cambridge.	Theor. Physics Seminar	Prof. J. Hamilton (University College)	Pion-Nucleon Scattering and Pion-Pion Inter- actions.
Tues., 4th June, 2.30 p.m., 21 Banbury Road, Oxford.	Nuclear Physics Seminar	Mr. R. O. Stephen	Fluctuations in Nuclear Cross Sections.
Tues., 4th June, 2.30 p.m., Imperial College, London.	Theor. Physics Seminar	Dr. S. F. Edwards (Manchester University)	A New Basis for Field Quantization.
Wed., 5th June, 2.30 p.m., University of Manchester.	Theor. Physics Seminar	Dr. P. G. Burke (A.E.R.E.)	The Scattering of Electrons and Positrons by Hydrogen Atoms.
Thurs., 6th June, 2.15 p.m., University Math. Lab., Cambridge.	Colloquium	Mr. N. E. Wiseman	A Possible Method for the Interconnection of Fast Tunnel-Diode Circuits.

## B. E. Kingdon

Building R.32.

24th May, 1963.

INTERNAL EVENTS

Mon., 27th May, 11.15 a.m., Cont. Rm., Bldg. R.1.	Lecture	Dr. C. Lovelace	3-particle Scattering
Tues., 28th May, 2.30 p.m., Cont. Rm., Bldg. R.1.	Lecture	Dr. C. Lovelace	3-particle Scattering
Wed., 29th May, 2 p.m., Cont. Rm., Bldg. R.12.	Seminar	Dr. C. Lovelace	3-particle Scattering
Mon., 10th June, 11.15 a.m., Cont. Rm., Bldg. R.1.	Lecture	Dr. C. Lovelace	3-particle Scattering
Tues., 28th May, 2 p.m., Cont. Rm., Bldg. R.12.	Seminar	Dr. C. Lovelace	3-particle Scattering

EVENTS AT A.E.R.E.

Tues., 28th May, 2 p.m., Cont. Rm., Bldg. R.12.	Seminar	Dr. C. Lovelace	3-particle Scattering
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EXTERNAL EVENTS

27th-31st May: 1st International Instrumentation and 1st Environmental Engineering Symposium at the R. and K. Laboratories, A Tring Street, Park Lane, London W.1. (Admission by ticket only, obtainable from R. and K. Laboratories Ltd., 25 Union St., London E.C.1. Tel: 01-252 4521)

# RUTHERFORD LABORATORY BULLETIN

No. 123 for the week commencing Monday, 10th June, 1963

✓ VISITS ABROAD Mr. L. B. Mullett, Dr. G. H. Stafford and Dr. P. G. Murphy will visit various accelerator establishments in Russia from 10th to 24th June, under a U.K./U.S.S.R. Exchange Agreement.

✓ VISITOR Dr. J. Sandford of the Brookhaven National Laboratory will visit the Laboratory from 11th to 14th June for discussions on particle separators with Dr. W. A. Smith, Ext. 6600.

P.L.A. The programme scheduled for the P.L.A. during the current week is as follows:-

<u>Date</u>	<u>Team</u>	<u>Experiment</u>
10th-11th June	Queen Mary College	Measurement of "A" parameter at 50 MeV.
16th June	N.I.R.N.S.	Polarization Monitor Calibration.

## INTERNAL EVENTS

Mon., 10th June, 11.15 a.m., Conf. Rm., Bldg. R.1	Nimrod Lecture Series	Dr. C. Lovelace (Imperial Coll.)	Scattering Theory of Unstable Particles.
Tues., 11th June, 5.30 p.m., Conf. Rm., Bldg. R.1	Accel. Lecture Series	Mr. J. W. Gardner	(Title to be announced).
Wed., 12th June, 2 p.m., Conf. Rm., Bldg. R.12	P.L.A. Group Seminar	Dr. C. J. Batty	Measurement of the Neutron Spectra Produced in (p, n) Reactions at 30 and 50 MeV.
Wed., 12th June, 3.30 p.m., No. 4 Conf. Rm., Bldg. R.1	Colloquium	Mr. A. Carne	Some Aspects of Long Linac Design - I.
Thurs., 13th June, 5.30 p.m., Conf. Rm., Bldg. R.1	Evening Lecture Series	Mr. A. E. Seddon (D.S.I.R.) (A 30-minute colour film will be included).	Hydraulics Research at Wallingford.
Mon., 17th June, 11.15 a.m., Conf. Rm., Bldg. R.1	Nimrod Lecture Series	Prof. J. M. Cassels (Liverpool Univ.)	Recent Counter Experiments at C.E.R.N.

## EVENTS AT A.E.R.E.

Tues., 11th June, 2 p.m., Conf. Rm., Bldg. 8.9.	Theor. Physics Seminar	Dr. B. D. Josephson (Cambridge Univ.)	Tunnelling in Superconductors.
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Mon., 17th June: Mobile Exhibition of Electronic Apparatus by A.E.I. Ltd.  
10 a.m. - 4 p.m., adjacent to the Social Club.

## EXTERNAL EVENTS

Mon., 10th June, 4.15 p.m., Clarendon Lab., Oxford.	Theor. Physics Seminar	Prof. H. Feshbach (M.I.T.)	The Compound Nucleus.
Tues., 11th June, 2.30 p.m., 21 Ban- bury Rd., Oxford.	Nuclear Physics Seminar	Dr. R. McDonald (Stanford Univ.)	An Experimental Test of the C.V.C. Theory of $\beta$ -decay.

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# RUTHERFORD LABORATORY BULLETIN

## EXTERNAL EVENTS (contd.)

Wed., 12th June, 2 p.m., Bldg. C2, Culham Laboratory	Theor. Physics Seminar	Mr. B. Randell (English Electric Company Ltd.)	ALGOL and the KDF.9.
Wed., 12th June, 2.30 p.m., Univ. of Manchester.	Theor. Physics Seminar	Dr. R. J. Eden (Cambridge Univ.)	Dispersion Theory and the Nuclear Many-Body Problem.
12th - 13th June: Brit. I.R.E. Symposium on Electronics, Instrumentation and Production, at Bristol College of Science and Technology. (Further details may be obtained from B. E. Kingdon, Ext. 484).			
12th - 22nd June: International Plastics Exhibition and Convention at Olympia, London. (Tickets may be obtained from B. E. Kingdon. A catalogue is available).			
Fri., 14th June, 4.15 p.m., Clarendon Lab., Oxford.	Colloquium	Prof. S. Tolansky (Royal Holloway College, London)	The Interferometric Method of Studying Surface Microtopography.

B. E. Kingdon

Building R.32

7th June, 1963

AKF

# RUTHERFORD LABORATORY BULLETIN

No. 124 for the week commencing Monday, 17th June, 1963

VISITORS Members of the East Hendred, Harwell, and Chilton Parish Councils will visit the Laboratory on Tuesday, 18th June.

A party of 28 students and staff from the College of Electronics, R.R.E., Great Malvern, will visit the Laboratory on Wednesday, 19th June.

VISITS ABROAD Mr. G. N. Venn, Head of the High Energy Physics Engineering Group, will visit the U.S.A. from 16th to 28th June to study engineering support to high energy experimentalists at the Brookhaven Laboratory.

Dr. G. Moorhouse of the Theoretical Physics Group will be in the U.S.A. from 17th to 30th June where he will visit the Brookhaven, Argonne and Berkeley Laboratories. He will also attend the International Conference on Nucleon Structure at Stanford University.

Mr. E. J. Jones of the Cyclotron Group will visit the Lawrence Radiation Laboratory, Berkeley from 19th to 28th June, to see the 88" sector-focused cyclotron and have discussions on various aspects of this machine.

Dr. E. Pickup of the Bubble Chamber Group will leave on 21st June for a four weeks visit to the U.S.A., where he will attend the International Conference on Nucleon Structure at Stanford University. He will also visit Brookhaven and Berkeley.

P.L.A. The programme scheduled for the P.L.A. during the current week is as follows:-

<u>Date</u>	<u>Team</u>	<u>Experiment</u>
17th-23rd June	Queen Mary College	Measurement of "A" parameter at 50 MeV.

ADMINISTRATION NOTICE A brown leather brief-case was found in R.1 car park on Friday, 14th June. Would the owner please contact the L.A.O., Building R.1.

## INTERNAL EVENTS

Mon., 17th June, 11.15 a.m., Conf. Rm., Bldg. R.1	Nimrod Lecture Series	Prof. J. M. Cassels (Liverpool Univ.)	Recent Counter Experiments at C.E.R.N.
Tues., 18th June, 5.30 p.m., Conf. Rm., Bldg. R.1	Accel. Lecture Series	Mr. J. W. Gardner	Particle Dynamics and Accelerators - II
Wed., 19th June, 10.30 a.m., No. 4 Conf. Rm., Bldg. R.1	Colloquium	Mr. K. Batchelor	Some Aspects of Long Linac Design - II
(There will be no lecture in the Thursday Evening Lecture series this week).			
Fri., 21st June, 2 p.m., Conf. Rm., Bldg. R.1	Informal Talk	Dr. D. W. Barron and Mr. C. Strachey (Cambridge Univ.)	CPL - the Cambridge/ London Atlas Programming Project.
Mon., 24th June, 11.15 a.m., Conf. Rm., Bldg. R.1	Nimrod Lecture Series	Dr. C. M. Fisher	Cascade Hyperon Decays.

## EVENTS AT A.E.R.E.

Mon., 17th June: Mobile Exhibition of Electronic Apparatus by A.E.I. Ltd. 10 a.m.-4 p.m., adjacent to the Social Club.

Mon., 17th June 2.30 p.m., Conf. Rm., Cockcroft Hall Lecture Mr. J. B. Bailey (A.E.I. Ltd.) The Application of Logican Static Switching. (Outer gate open, inner gate manned).

Tues., 18th June: "Glass and You", a 40-minute film, will be shown in the Cockcroft Hall at 11.45 a.m. (Outer gate open, inner gate manned).

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EXTERNAL EVENTS

17th-21st June: International Plant and Maintenance Engineering Exhibition and Conference, Alexandra Palace, London. Details and application forms are available from H. F. Norris, Bldg. R.32, Ext. 484.

Tues., 18th June,  
2.30 p.m., 21 Ban-  
bury Rd., Oxford

Nuclear  
Physics  
Seminar

Mr. D. J. Crennell  
(Oxford Univ.)

$K^+$  -p Interactions  
at 1.5 GeV.

H. F. Norris

Building R.32

14th June, 1963

AKF

# RUTHERFORD LABORATORY BULLETIN

No. 125 for the week commencing Monday, 24th June, 1963

VISITS ABROAD Mr. M. Snowden will visit C.E.R.N. for three days commencing 28th June, to attend a meeting of the C.E.R.N. Track Chamber Committee.

Mr. A. J. Egginton and Dr. M. J. O'Connell of the Nimrod Beams Group will visit C.E.R.N. from 24th to 26th June for discussions on particle yields experiments.

Mr. J. D. Wheatley of the P.L.A. Engineering Group will visit the United States for one month commencing 24th June, to study operating procedures and engineering support and maintenance on linear accelerators at Brookhaven and Minnesota.

Mr. M. J. Mitchell of the Theoretical Physics Group will spend approximately three months at C.E.R.N., commencing 2nd July, for the testing and development of computer programmes on the Hough-Powell Device (high-speed measuring equipment for bubble chamber pictures).

P.L.A. The programme scheduled for the P.L.A. during the current week is as follows:-

<u>Date</u>	<u>Team</u>	<u>Experiment</u>
24th June	N.I.R.N.S.	Polarization Monitor Calibration.
26th-30th June	A.E.R.E.	(p, He <sup>3</sup> ) Reactions at 50 MeV.

INTERNAL EVENTS The Nimrod Lecture on Monday, 24th June, "Cascade Hyperon Decays" by Dr. C. M. Fisher, has been postponed, and no lecture will be given on that date.

Tues., 25th June, 5.30 p.m., Conf. Rm., Bldg. R.1.	Accel. Lecture Series	Mr. J. W. Gardner	Particle Dynamics and Accelerators - III.
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There will be no lecture in the Thursday Evening Series this week.

Mon., 1st July, 11.15 a.m., Conf. Rm., Bldg. R.1.	Nimrod Lecture Series	Dr. A. Ashmore (Queen Mary College)	K-scattering.
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Thurs., 4th July, 5.30 p.m., Conf. Rm., Bldg. R.1.	Evening Lecture Series	Dr. J. F. Loutit (M.R.C.)	The World Hazard of Strontium 90.
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Notes for the recent lectures on Sector-focussed Cyclotrons are now available from Mr. T. R. Walsh, Building R.1.

## EXTERNAL EVENTS

25th June-5th July: International Construction Equipment Exhibition and Conference, Crystal Palace, London.

Wed., 26th June, 7.30 p.m., Coll. of Tech., Oxford.	Nat. Prod. Year Lecture	Mr. E. W. Segrave	Productivity in the Building Industry. (The lecture will be preceded by a film.)
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A Symposium on Applied Microscopy will be held in Brighton on 22nd-26th July. Details may be obtained from B. E. Kingdon.

B. E. Kingdon

Building R.32

21st June, 1963  
AKF

# RUTHERFORD LABORATORY BULLETIN

No.126 for the week commencing Monday, 1st July, 1963

## VISITOR

Professor D. E. Caro, Professor of Experimental Physics at the University of Melbourne, Australia, will visit the Laboratory on Thursday, 4th and Friday, 5th July, for discussions on nuclear physics.

## VISITS ABROAD

Dr. J. Howlett, Director of the Atlas Computer Laboratory, will attend a meeting at C.E.R.N. on 5th July, as U.K. representative, to discuss the future computing requirements of C.E.R.N.

Mr. A. G. Wilson and Miss B. J. Compston of the Theoretical Physics Group will visit C.E.R.N. for two and a half months and one month respectively, commencing 4th July, for the testing and development of computer programmes on high speed bubble chamber track measuring equipment.

## NIMROD MAGNET ROOM

As from Sunday, 7th July all passes previously issued for the Magnet Room area will become invalid. New passes will be issued later.

## P.L.A.

The programme scheduled for the P.L.A. during the current week is as follows:-

<u>Date</u>	<u>Team</u>	<u>Experiment</u>
1st-3rd July	A.E.R.E.	(p,He <sup>3</sup> ) Reactions at 50 MeV.
6th-7th July	Queen's Univ., Belfast and Westfield College.	Shell Structure Studies by (p,2p) Reactions.

## CHANGE OF ADDRESS

Notification has been received that the postal address of the Midwestern Universities Research Association (M.U.R.A.) is now:-

Box 6, Stoughton, Wisconsin, U.S.A.

## VACANCIES AT C.E.R.N.

Further vacancy notices, covering a wide range of posts, have been received from C.E.R.N., Geneva. Details may be obtained from Mr. A. G. Taylor, Personnel Branch, Building R.20.

## INTERNAL EVENTS

Mon., 1st July, 11.15 a.m., Conf. Rm., Bldg.R.1.	Nimrod Lecture Series	Dr. A. Ashmore (Queen Mary College)	K-scattering.
Tues., 2nd July, 5.30 p.m., Conf. Rm., Bldg.R.1.	Accel. Lecture Series	Mr. J. W. Gardner	Particle Dynamics and Accelerators - IV.
Thurs., 4th July, 5.30 p.m., Conf. Rm., Bldg.R.1.	Evening Lecture Series	Dr. J. F. Loutit (M.R.C.)	The World Hazard of Strontium 90.
Mon., 8th July, 11.15 a.m., Conf. Rm., Bldg.R.1.	Nimrod Lecture Series	Mr. B. Rose (A.E.R.E.) (Last lecture in the current series).	A Proposed Experiment on Nimrod.
Thurs., 11th July, 5.30 p.m., Conf. Rm., Bldg.R.1.	Evening Lecture Series	Dr. I. J. Good	The Place of Speculation in Science.

(Notes for the recent lectures on Sector - focussed Cyclotrons I, II and III are now available from Mr. T. R. Walsh, Building R.1).

Building R.32

28th June, 1963

VDW

B. E. KINGDON

# RUTHERFORD LABORATORY BULLETIN

No.127 for the week commencing Monday, 8th July, 1963

## VISITORS

A party of 32 students and members of staff from the North East Essex Technical College, Colchester, will visit the Laboratory on Tuesday, 9th July.

Mr. R. W. Boom of Atomic International, Canoga Park, California, will visit the Laboratory on Monday, 15th July to discuss superconducting magnet design and application problems with Dr. P. F. Smith and Dr. D. J. Clark.

## P.L.A.

The programme scheduled for the P.L.A. during the current week is as follows:-

<u>Date</u>	<u>Team</u>	<u>Experiment</u>
8th-10th July	Queen's Univ., Belfast and Westfield College.	Shell Structure Studies by (p, 2p) Reactions.
11th July	R.H.E.L. Chemists.	Irradiations.
12th-13th July	Oxford University.	Cross Section Measurement $^{16}\text{O}$ (p, p', $\alpha$ ) $^{12}\text{C}$

## MISSING EQUIPMENT

The following equipment has been reported missing:-

$\frac{1}{2}$ " Wolf Drill, Ser/No. 1136956, A.E.R.E. Number 4290.  
Model 8 Avometers, Ser/Nos. 10891-C-153 and 105978-C-460.  
Galvanometer, Ser/No. L226704. Stopwatch, Ser/No. ST75189.

Will anyone in possession of any of these items, please contact Inventories Section, Ext.570.

## CONFERENCE

Registration forms for the Conference on Low and Medium Energy Nuclear Physics to be held at the University of Manchester from 4th-6th September are now available from Mr. P. Clare, Personnel Branch, Building R.20. The closing date for registration is 17th July.

## INTERNAL EVENTS

Mon., 8th July, 11.15 a.m., Conf. Rm., Bldg.R.1	Nimrod Lecture Series	Mr. B. Rose (A.E.R.E.) (Last lecture in the current series).	A Proposed Experiment on Nimrod.
Tues., 9th July, 5.30 p.m., Conf. Rm., Bldg.R.1	Accel. Lecture Series	Dr. N. D. West	Proton Linacs - Phase Motion and Aspects of R.F. Design.
Wed., 10th July, 10 a.m. - 4 p.m.,	Mobile Exhibition of Electronic Test Equipment by Hewlett-Packard Ltd., adjacent to Bldg.R.20.		
Thurs., 11th July, 5.30 p.m., Conf. Rm., Bldg.R.1	Evening Lecture Series	Dr. I. J. Good (Last lecture in the current series).	The Place of Speculation in Science.

(Notes for the recent lectures on Sector-focussed Cyclotrons I, II and III and Particle Dynamics and Accelerators I, II and III are now available from Mr. T. R. Walsh, Building R.1).

Building R.32

H. F. NORRIS

4th July, 1963

VDW

# RUTHERFORD LABORATORY BULLETIN

No. 128 for the week commencing Monday 15th July, 1963

## BOARD MEETING

✓ The next meeting of the Governing Board of the National Institute will be held at the Rutherford Laboratory on Monday, 15th July.

## VISITS ABROAD

✓ Dr. R. F. Churchhouse of the Atlas Computer Laboratory will visit C.E.R.N. for one week commencing 15th July for technical discussions on computers.

✓ Dr. W. A. Smith of the Nimrod Beams Group will visit Officine Galileo, Florence, Messrs. Emile Haefely and Co., Basle, and C.E.R.N. from 17th to 25th July, in connection with ancillary plant ordered for the Nimrod velocity separators.

## P.L.A.

X The programme scheduled for the P.L.A. during the current week is as follows:-

<u>Date</u>	<u>Team</u>	<u>Experiment</u>
18th-21st July	Oxford University	Cross Section Measurement $^{16}_0(p,p',\alpha)C^{12}$

## LIBRARY NOTICE

✓ The Rutherford Laboratory Library is moving into new accommodation in Building R.32, and for this reason will be closed from Wednesday, 17th to Friday, 19th July inclusive. Any urgent requests arising during this period should be made direct to the A.E.R.E. Library.

## CONFERENCES

✓ An International Conference on the Physics of Electronic and Atomic Collisions will be held at University College, Gower Street, London W.C.1., on 22nd-26th July.

The Institute of Physics and the Physical Society will hold the following conferences on the dates indicated:-

4th-6th September: "Low and Medium Energy Nuclear Physics", at the University of Manchester. (Application forms may be obtained from Mr. P. Clare, Building R.20. The closing date for registration is 17th July).

16th-17th September: "Some Aspects of Surface Behaviour", at the University of Bristol. (Advance registration is necessary).

## LECTURE NOTES

Notes for the recent lecture series on Matrix Algebra, by Dr. J. Howlett, are now available from Miss E. S. Butler, Building R.25, Ext. 547.

B. E. Kingdon

Scientific Administration

12th July, 1963.

Building R.32.

CMP

# RUTHERFORD LABORATORY BULLETIN

No.129 for the fortnight commencing 29th August, 1963

## VISITOR

✓ Dr. J.R. Richardson, Professor of Physics at the University of California, Los Angeles, is visiting the Laboratory from 22nd July-28th August. His office is in Building R.25, Room 2.30, (Ext.6172).

## VISIT ABROAD

✓ Dr. M. A. R. Kemp of the High Energy Physics Group will visit C.E.R.N. on 7th August for one week.

## P.L.A.

The programme scheduled for the P.L.A. during the next fortnight is as follows:-

<u>Date</u>	<u>Team</u>	<u>Experiment</u>
31st July-7th August	A.E.R.E.	Differential Cross-Section Measurements.
8th-11th August	R.H.E.L.	Accelerator Physics and Chemists' Irradiations.

## ALEXANDRA ROSE DAY

✓ A letter of thanks has been received in respect of the Alexandra Rose Day collection. The amount contributed from N.I.R.N.S. was £12.18.0.

Building R.32,  
Rutherford Laboratory.

H. NORRIS

26th July, 1963