RUTHERFORD HIGH ENERGY LABORATORY OPENING CEREMONY

Notes of a meeting held in R.1 Conference Room on Friday, 10th January 1964.

Present:- F.M. Telling

Mr. T. Walsh

Mr. B. Southworth

Mr. E.G. Higgins representing Eng. Division
Mr. F. Harden "NIMROD Eng. Group
Mr. P.J. Jones "NIMROD Physics Group

Mr. P.J. Jones "NIMROD Physics Group
Mr. P.P. Starling "NIMROD General Physics Group

Mr. D.C. Salter " H.E.P. Division
Mr. P.S. Rogers " V.E.C. Group
Mr. C.L. Roberts " Atlas Laboratory

Mr. C.J. McDonald " Admin. Group

Mr. P. Seager "Bubble Chamber Group Mr. W. Burrells "Radiation Protection

Apologies for absence received from Mr. K. Davies (H.E.P. Eng. Group), Mr. D.A. Harrigan (Theoretical Studies) Mr. Wallis (P.L.A. Eng. Group).

1. The meeting was called to brief the group representatives on the general arrangements for the Laboratory opening ceremony.

The following programme of events was tabled:

Tuesday, 21st April Press Photographers
Wednesday 22nd " Press Correspondents

Thursday 23rd " Rehearsal for opening ceremony

Friday, 24th " Opening Ceremony

Saturday, 25th " Open day for Laboratory personnel

- 2. The representatives' terms of reference were to coordinate the preparations to receive visitors within their respective groups during the above days.
- 3. An official programme of events is being prepared by Mr. T. Walsh. The representatives were asked to provide a precis of the work being carried out within their groups with reference to any particular exhibits. (The content to be technical but not too specialised.) To allow time for printing and distribution it was necessary to have this programme detailed by the 24th February. It was therefore agreed that representatives would let Mr. Walsh have their write-ups before the 29th January.
- 4. A contract will be placed to deal with the artwork requirements, and any diagrams, sketches, literature, notices, etc. can be provided if the essential information is fed through Mr. Telling. The latest date for receiving this work is the 1st April.
- 5. A number of photographs of apparatus and equipment have already been taken and use can be made of these if required. Any further requests for photographs to be taken can be routed through Mr. Telling if desired. It is essential to have the negative number of any photograph displayed during this open period as an aid to the press representatives.
- 6. The question of a general costing code against which to book the time and materials used within the groups to prepare exhibits etc. would be taken up with Dr. Valentine and information given at the next meeting.

- 7. Representatives were required to cover the following groups:-
 - (i) High Magnetic Fields
 - (ii) Radio-chemical Laboratory
 - (iii) P.L.A. Nuclear Physics Group
 - (iv) P.L.A. Machine Group
 - (v) NIMROD Beams Group

An approach would be made to the Group Leaders to provide nominations.

8. The next meeting would be held on Wednesday, 5th February at 3.15 p.m. in R.1 main conference room to discuss the draft material for the official programme and consider any further points that may arise.

(Please note revised time of meeting)

F.M.T.

13.1.64.

Nimrod Press Day Arrangements

People expected 7.

Science correspondents of national press and representatives of technical press. i.e. people with a general technical knowledge and an interest only in the outstanding scientific and engineering features. We shall not be catering for specialists in the field,

Correspondents will be taken on an itinerary round Mimrod. It is suggested that installed equipment of interest be labelled, and other exhibits, drawings and explanations be put on tables and boards near the appropriate sections of the machine.

3. Required

- (i) Description of all exhibits for the benefit of the representatives of the technical press up to 1000 words by 17th February to T. Walsh, Building R.1.
- (ii) Full details of all labels, brief explanations and diagrams for the exhibits indicating whether large (for installed equipment labelling) or small (for exhibits on tables) during February and March to us for sign-writing.

4. Provided

Tables, and stands to go at the back of them for drawings, will be provided in the magnet room as required.

Responsibility for the various sections of the machine

Targets, extraction system Magnet Vacuum Vessel R.F. System, beam monitoring Inflector, H.E.D.S. Linac beam monitoring Linac, buncher, de-buncher Pre-injector, L.E.D.S. Controls Synchronising system Synchronising system J. T. Hyman Engineering (Mechanical) A. R. Mortimer

R. G. T. Bennett

R. Morgan G. Grossart W. Boyd

R. Billinge J. T. Hyman

N. D. West

H. Wroe, K. D. Srivastava R. Russell

P. F. Jones F. Harden

Rutherford Laboratory

31st January, 1964.

OPENING CEREMONY

Notes of a meeting held on 25th February, 1964.

Present: Mr. Telling) Mr. Tolcher)

Mr. Tolcher) N.I.R.N.S.

Mr. Childs

Mr. Callis) RANK ORGANISATION

The meeting was called to discuss the detailed arrangements for the closed circuit T.V. and sound amplification requirements for the opening ceremony on Priday 24th April, 1964. Points resolved were:-

- ACTION

 1. 3 T.V. Monitors to be provided in the restaurant and 2 in the marques

 Mr. Wallis

 Area. The siting of these as agreed with Mr. Wallis. Mr. Tolcher to arrange

 Mr. Tolcher

 for suitable stands for these monitors.
- Mr. Childs 2. A push button to be arranged to initiate a sequence of amber and red flashing lights to indicate that NIMROD is being started up and operated. This sequence will be required in the restaurant and the marques, with signals to main and local control rooms.
- Mr. Wallis 3. A recording of Message/to be put on tape and made audible in both restaurant and marquee at the appropriate time.
- Mr. Wallis
 4. The closed circuit T.V. to pick up the signal from the oscilloscope in the Control room. Arrangements to be made to switch the T.V. Camera to another frigged scope in the event of a NIMROD breakdown.
- Mr. Childs

 5. A pinging noise from the magnetic field to be introduced along with the T.V. picture to give a more dramatic effect. It may be difficult to synchronise the sound with the picture. If used then pinging noise to be faded out after a few minutes but picture will remain on screens until guests have left the restaurant.
- Mr. Telling 6. A suitable place to be found in restaurant area for Rank Control room.
- Mr. Telling 7. Details of Restaurant and Marquee areas to be available for Messrs Tolcher and Childs. Mr. Wallis to have dimensions of marquee. Also details of arrangements for speeches etc when programme is available.
- Mr. Tolcher 8. Mr. Tolcher tolkaise with representatives of Messrs Ranks on future details, and to provide assistance with cable runs etc.
- Mr. Wallis 9. Mr. Wallis to provide a firm estimate for the sound and visual links together with the use of tape recordings.

F.M. Telling

RUTHERFORD LABORATORY PRESS VISIT 22 APRIL 1964.

er to avoid apparant discrimination in favour of the control of the control

- 1. In order to avoid apparant discrimination in favour of certain correspondents or journals a press imbargo should now be observed. Answers to press inquiries should therefore be deferred until the official press visit. I will be willing to explain this situation to inquirers if they are referred to me.
- 2. Statements of managerial policy will be made first in an address to press correspondents by the Director. This is timed for 11.30 a.m. to 12.00 noon on 22nd April. Secondly there will be a Press Conference from 4.00 p.m. to 4.30 p.m.

No questions will be accepted during or after the morning address. It will be published as a Rutherford Laboratory Press Release.

The Director will chair the Press Conference, and questions will be invited. The platform should be occupied by about four people including the Director and a broadly informed member of the Governing Body. If the member of the Governing Body is not fully qualified to answer questions from the users' standpoint an additional person should be included to do this.

The Secretary of the National Institute, members of the Directorate, and Division Heads should be in attendance.

3. Technical and general information will be conveyed to the press in a handbook and about forty different technical leaflets. Technical questions will also be accepted at the Press Conference.

A list of potentially sensitive questions is attached. Senior Staff attending the Press Conference are asked to consider these carefully and submit ideas on how they should be answered to me. Suggestions on other sensitive questions are invited. A summary of replies and further questions will be circulated for discussion at a Press Conference briefing meeting.

T. R. Walsh Scientific Administration Group

Rutherford Laboratory 11th March, 1964

Circulation:-

0-19

Dr. T. G. Picksvance

Mr. L. B. Mullet

Mr. P. Bowles

Dr. G. H. Stafford

Dr. J. M. Valentine

Dr. J. A. V. Willis

Dr. W. D. Allen

Mr. W. Walkinshaw

Dr. L. C. W. Hobbis

NATIONAL INSTITUTE FOR RESEARCH IN NUCLEAR SCIENCE

RUTHERFORD HIGH ENERGY LABORATORY

Open Day: Arrangements for Children

- 1. To be read in conjunction with notice dated 19th March, 1964.
- 2. Some difficulties are likely to be experienced by staff by the limitation of creche facilities on Open Day, 25th April, 1964, to children aged five and under and the request that children under ten should not tour the Laboratory.
- The creche is being supervised by volunteers who have said that they cannot cope with children over five. It is recognized that this may create a problem for parents with children between the ages of five and ten and whilst we hope that as far as possible arrangements will be made for children of these ages to be cared for by friends and relatives, it is accepted that in some cases children will have to accompany parents; close watch should be kept on children and there are certain areas to which it will not be possible to admit them.

Rutherford Laboratory.

W. W. Woodall.

3rd April, 1964.

NIMROD

Catering Requirements in connection with the

Opening Ceremony

21st April 1964

1.30 - 2.30 p.m. Waitress Service Luncheon for 20-30 Press Photographers

Please submit three sample menus @ 7/6d. per head for approval.

A bottle of beer or cider per person to be available on demand.

4.00 p.m. Tea and biscuits to be available in the Restaurant Coffee Lounge.

22nd April 1964

1.30 - 2.30 p.m. Waitress Service Luncheon for 70-100 Press Correspondents.

Please submit three sample menus @ 10/-d. per head for approval.

A bottle of beer or cider per person to be available on demand.

4.00 p.m. Tea and biscuits to be served informally in the Restaurant Coffee Lounge.

We would require a good fish dish to be available each day as an alternative to the main course of the selected menu. I suggest Mr. Greenwood should have Plaice Fillet or Lemon Sole on the normal menu for the two days ensuring that sufficient is retained in case of demand.

24th April 1964

10.00 - 11.15 a.m. Coffee in R.1 Coffee Lounge (150 coffees to be served)

11.15 - 12.00 Coffee to be served as guests arrive (150 coffees to be served)

*12.30 - 2.30 approx Sherry in Coffee Lounge at approx. 12.15

(About 300 sherries), and Luncheon for 266

Guests in Rotunda.

*12.45 - 2.30 " Cold Luncheon for 1000 members of the staff in Marquees.

*Luncheon Menus have already been agreed with Mr. Woodall.

25th April, 1964

3.00 - 4.30 p.m.

300 - 350 set Teas @ 2/6d. per head to be served during afternoon as required. Alternatively cups of tea only should be available.

Some 50 or so Technical Representatives will have free tickets. Members of the staff and their families will be required to pay for their teas.

Text of announcement to be read by Dr. Valentine after the Minister's party have left restaurant Ladies and Gentlemen, I should like to explain the arrangements which we have made to let our guests see the laboratory. There are buses outside the restaurant. A number of our guests who are perhaps not very familiar with the laboratory have been invited by a note at their places to form the first of the visiting parties and will leave in these buses. They will be joined by some senior members of staff who will act as guides. The buses will go first to the Nimrod area. We have not made formal arrangements for other guests to start at any particular place. After the first bus parties have left we have asked the remaining Rutherford Laboratory staff to make up small parties of guests who are sitting near them and show them around. As soon as the first parties have left the buses. the buses will provide a circular service from Nimrod - P.L.A. -Restaurant - Nimrod. We hope that this will help people to circulate round the laboratory. Of course, this is by no means an obligatory tour; anyone is free to go anywhere he wants. e.c. Dr. L.C.W. Hobbis Mr. W.W. Woodall Mr. B. Southworth Mr. T.R. Walsh

Mr. P. Seager RI

RUTHERFORD HIGH ENERGY LABORATORY OPENING CEREMONY

Meeting held on Wednesday, 5th February, 1964

Present:-

T.R. Walsh
F.M. Telling
B. Southworth
T.F. Gubbins (P.L.A.)
F. Harden (Nimrod ME)
M.J. Newman (Nimrod PB)
P.J. Jones (Nimrod MP)
P. Seager (Bubble Chamber Group)
D.C. Salter (HEP Division)
K. Davies (Nimrod HEPR)
D.A. Harragan (Theoretical Studies)

- 1. Time and materials used in the preparation of exhibits etc. to be booked to the costing code generally used within the groups. A special costing code has been set up to cover items such as artwork, reproduction of technical handouts which are done via F.K. Telling or T.R. Walsh. It will help if material for artwork etc. is fed to F.E. Telling as soon as possible rather than all the material arriving at the same time near the closing date of 1st April. It will also be appreciated if the material is typed.
- 2. Information (title, location, person responsible) on exhibits which will be set up for the week of the Opening Ceremony is now available from almost all groups. A list of the proposed exhibits is attached to this note for all groups representatives who were not present at the meeting.

In an attempt to standardise the technical handouts they will be edited and reproduced via T.R. Walsh. The write-ups should be with T.R. Walsh by 17 February.

- 3. T.R. Walsh will check whether any exhibits need to be manned on the day of the Opening Ceremony itself.
- 4. About 80 people are expected on the day of the Press Visit and tours of the Laboratory in ten groups of eight people are being organised by B. Southworth. Two periods of 1, and 1, hours are allocated to the tour and the amount of time which can be spent in any one area will be very limited. Whenever possible exhibits should be brought together for it is almost certain that no time will be available to visit isolated exhibits. Twhibits which are not toured on the Press Visit are still desirable for the day of the Opening Ceremony and for Open ay. A proposed programme for the tours will be prepared as soon as possible and circulated to all group representatives.

B. SOUTHWORTH

Kext meeting:- Wednesday, 19th February, at 3.15 p.m. in Conference Room No. 4.

Distribution:
Those present

C. G. Higgins (Central Engineering)

P.P. Starling (Nimrod GP)

P.S. Rogers (VEC Group)

C.L. Roberts (Atlas Laboratory)

C.J. McDonald (Administration)

Opening Day Guided Tours

- 1. After the Nimrod Inauguration Ceremony a small Ministerial Party will leave the Restaurant to tour part of the Laboratory.
- 2. When the Minister's party has left Dr. Valentine will explain the arrangements for the remaining guests. These are described below.
- 3. About five minutes after the Ministerial party has gone a further party of about 50, including distinguished guests and civic dignituries, will leave accompanied by Division Heads and their wives.
- 4. There will remain about 400 outside guests who may like to visit parts of the Laboratory. Laboratory guests are asked to act as guides for this purpose making up small parties from those seated near them and including their wives. A circular service provided by buses will be available but it is not necessary for these tours to follow any special order. About 40 Laboratory guests are expected so their is no need for additional guides as requested in my previous note of 16th April.
- 5. Exhibits should be manned for the second party (para. 3) and subsequent groups but not for the Ministerial party unless specially requested.
- 6. Further details can be discussed if necessary at the briefing session arranged for Laboratory guests on Thursday, 23rd.

B. Southworth

21st April, 1964. Building R.20

Bubble Chamber Exhibits

Bubble Chamber Data processing laboratory Demonstrator: Dr. C. Fisher

Diagram of Imperial College measuring machine 1.5M H₂ Chamber and pictures of events.

Measuring Laboratory, R.1 Demonstrator: K. McKee

Diagram of University College measuring machine and pictures of events.

Heavy Liquid Chamber, R.6 Demonstrator: J. H. Foster

Sectional Drawing of Chamber Diagram of Chamber operating sequence Diagram of Group operations and photographs of typical H. L. events.

Freon Chamber
Demonstrator: R. Elliott

Diagram of Chamber and photographs of tracks

Information on Tours

Monday 20th April

Tour from 10.30 -12.00 noon. Exhibits to be manned by the demonstrator until after the party has visited.

Tuesday 21st April

Exhibits to be manned from 12.00 - 1.30 and 2.30 - 4.00 from a safety point of view and to supply captions for pictures.

Wednesday 22nd April

Exhibits to be manned by the demonstrator from 12.00 to 1.30 and from 2.30 - 4.00.

Thursday 23rd April

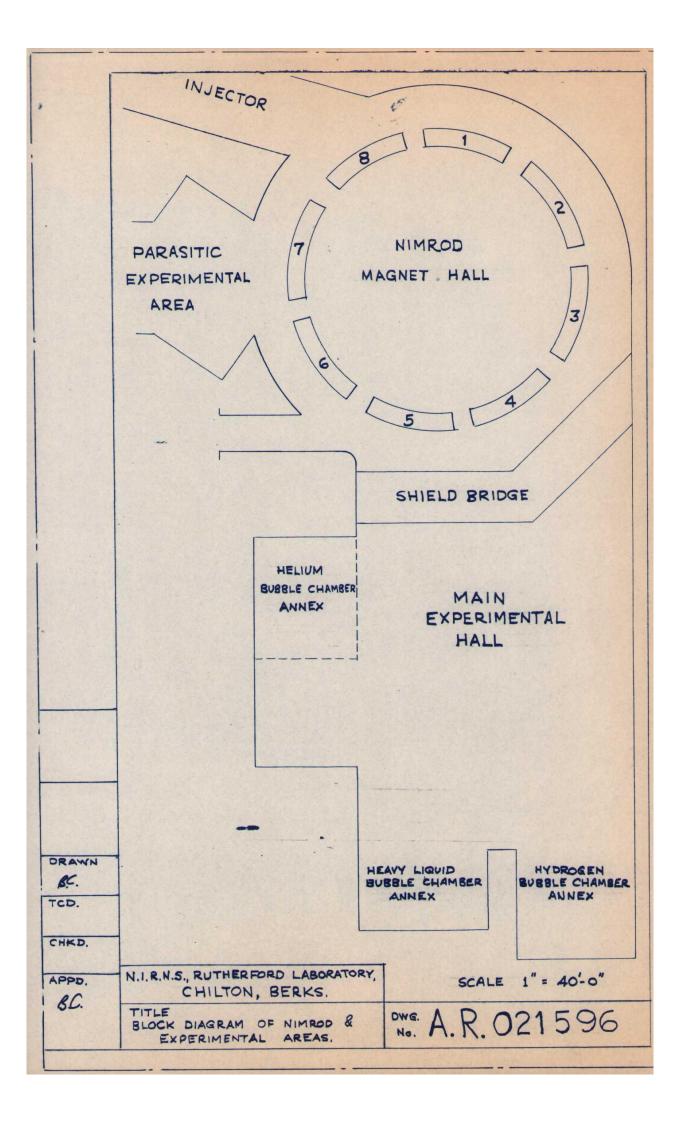
Nimrod is operating all day.

Friday 24th April

Exhibit to be manned from a safety point of view from 10.30 - 11.45 and after the opening until 4.30 p.m.

Saturday 25th April

Exhibits to be manned from 2100 p.m. - 6.00 p.m.



Handout's by 17/2/64.

18 groups. 8 per groups.

14 am 13/4 pm.

RUTHERFORD HIGH ENERGY LABORATORY

Proposed exhibits for the Press Visit and Opening Ceremony
(21st - 25th April, 1964)

A. NIMROD DIVISION

Nimrod Machine Physics

A1 Pre-injector and L.E.D.S. (TH) Injector Room H.Wroe, K.D.Srivastava

A2 Injector beam monitoring. (TH) ? J. T. Hyman

A3 Linac, buncher and debuncher. (TH) Injector Room N.D.West

A4 H.E.D.S. and inflector. (TH) Injector Room R.Billinge

A5 Magnet and vacuum vessel. (TH) Magnet Room R. Morgan, P. Jones, G. Grossart

A6 Power supply. (TH) Generator House H.Brooks

A7 R.F. system. (TH) ? W.Boyd

A8 Targets and extraction system. (TH) Magnet Room R. Bennett

A9 Control Room. (TH) Control Room R.Russell

A10 Control system. (TH) Control Room J.T. Hyman

Nimrod Beams Physics

All Separators R. 25 (TH) Meany July Lab.

A12 Target mechanisms R.25 (TH)

Nimrod High Energy Physics Engineering

A13 Liquid hydrogen target systems (TH) Experimental Ama P.D. Hey J. Delung

A14

A15

A16

A17

Nimrod General Physics

A18 Space charge neutralisation R1-Lab.3 (TH) P.H.Banks

A19 New high vacuum gauge R1 Lab. 3 (TH) G.A. Regan

Nimrod General Physics (Contd)

A20	Liquid	Helium	Level	Indicator	R1	Lab.3	(TH)	G.A. Regan

Nimrod Machine Engineering

A-27 Mech.

B. HIGH ENERGY PHYSICS DIVISION

Counters

B1	TT1 Beam line	Nimrod Parasitic Area	JJ Thresh
B 2	TT2 Beam line	Nimrod Experimental Area	Hyman.
B3	N3 Beam line (TH)	Nimrod Experimental Area	Clegg.
B4	N1 Beam line	Nimrod Experimental Area	Maning
B5	Visual spark chamber	Rí	Thresher.
В6	Visual spark chamber	R2	Kayman
B7	Sonic spark chamber	R2	e whilehead.

Bubble Chamber Research

B8	Freen bubble chember	See C3	112	mrod Experimental Area	R. Elleott
В9	Scanning and measuring	machines	· (TH).	R1	A.M. Segar.
B10	Emulsions			R1	P. Lune

Electronics

111 Fost Electroni teeniques R25/Nimrod Experimental Area? Wille

APPLIED PHYSICS DIVISION

Bubble Chambers

C1 Scanning Rooms Film processing scaning or pleasing lab.

C2 Heavy Idquid bubble chamber Expentatione. J. Poster.

C3 Freon bubble chamber Namod Expended Area R-Ellitt

Theoretical Studies

C4 Data Reduction (TH)

Orion Computer J. Sparrow

Variable Energy Cyclotron

0.5 Snall exclotron. 66. Model of V.R.C. c7. Son source.

C8 How a cyclotron works.

High Magnetic Fields at.

Theoretical Study

D. P.L.A. DIVISION

Nuclear and Radiochemistry

D1 - - Cave and automatic readout N & R wing

D2 Rare earth separation

N & R wing

Nuclear Physics

P.L.A. Machine

P.L.A. Engineering

E.	ENGINEERING	DIVISION

Central Engineering

E1 Typical project (TH)

R9

E.G. Higgins

F. ADMINISTRATION DIVISION

F1 Nimrod Display

Ri Main Entrance F. Telling

Radiological Protection

F2 Perspex cloud chamber

F3 Penetration of radiation

F4 Treasure hunt

F5 Charged girl.

T. R. Walsh

Rutherford Laboratory

5th February, 1964.

- 4 -

· rivess uny	LP. Seago.
Proposed Tour of the Laboratory	
Pentod 1 12 - 1.30 1½ Lours Pentod 2 2.15 - 4:00 1½ Lours	
Organised for about 80 people in 10 groups of 8; labelled $A-J$	groups
Exhibit Areas	
1 Man Control Room	
2 Experimental Area	
3 Magnet Room (Marson	
3 Magnet Room WIMROD WIMROD	
5 Injector Hall	
6 Power Suffly Honse)	
7 R2 (Spark clamber)	
8 R25 (Henry lab.)	
1 Lab-2) Gyelolii	
0 Lab 3 (R) 1 Lab 6 (gen Physics 2 Lab 8) Scarning.	
1061 R1	
1 Late Gen Physics	
2 Lat 8) come	
3 Scanning Rooms, OPAON	
4 Muclear and Rachock Lab.	
15 P.L.A.	
R8, R9 (Workshop)	

A	1 (10)	2 (20)	3 (2	5) - 4	(10) (15)	TE G	(10)
B	6	l	2	3		5	
. C	2	3	4	5 F.	56	1	
0	5	4	3	2	1	6	
E	6 T-	5	4	3	2	1	
	Tempo	nt to and	from the	tunnel to	the hije	ctor Contr	el Room
F	15 (40)	14/2	6) 16	(10) 8	15)		
G .	14 (29)	15(4)	0) 7	(10) 9	(10) 10	(10)	·S
H	13 (25)	14/2	0) .13	5 (40)			
I	8 (15)	11 (10)	12	(13	9 (s) 9	0) (10	9) 7(19)
J	7(10)	16 (20)	9 (10)	10 (10)	11	8 (15)	13(2)
	ted times a						
A becomes B becomes	nes F, and mes G	uce veni etc	a, in Per	Acod 2			
	mments t		Shworth	GA Sea	10 00	ulli ,	Par