## 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.

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 H<sub>2</sub> 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

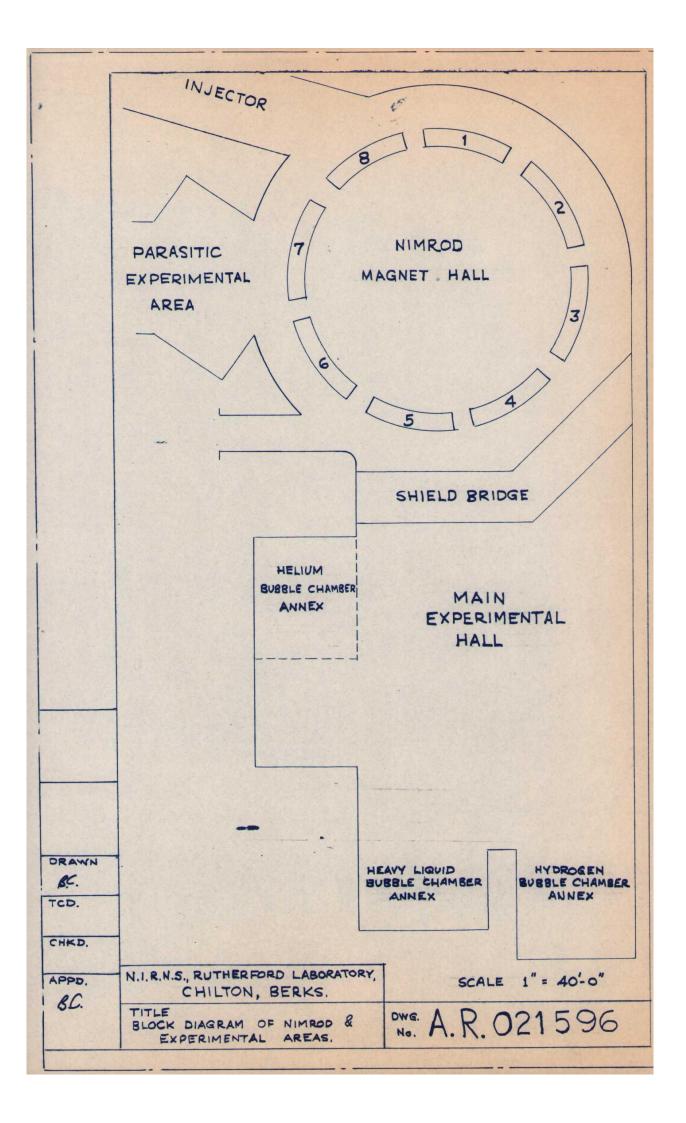
Nimrod is operating all day.

#### 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) Heavy 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>B</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 Named 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