



R(12), NDT(60,3), ISW(3500), ANGLE(60), YINT(60), DUMMY(84),  
(6,3), NACHT(48), XCEN(12), YCF(2,2), PAR(2,2), AR  
MMON/CFID/MFX(20,3), MFY(20,3), NFDAT(10,3), NFX(3), NFD(3), I  
B(2,20,3), NX(100,4), NY(100,4), XN(2), YN(8), IB(100,2), IDX(  
DY(100,2), JDX(4), JDY(4), IHS(4), IOV(2), IUN(2), IDE  
CF(16), IFS, NFS, FX, FY, JK, PIC, KPIC, NCOUNT, NBIN, AX, MAXUN  
AXN, CTA, CTB, MX, MY, JA, JB, JC, JD, JE, JF, XF(20,3), F(20,3)  
MMON/CJACK/NSY(20,30), NMS(20), NDR(20), NSB(20), KAS(20), YA  
(20), BX(20), NST1(20), NST2(20), INER(20), NSAT(20,30), WT(60)

**15-22 May 1972**  
**bulletin 18**

#### RETIREMENT PRESENTATION



Bill Hayes, accompanied by his wife, receiving a retirement presentation from Dr J Howlett, Director of Atlas Computer Laboratory.

#### BEREAVEMENT NOTICE

Mrs Proctor and family would like to thank colleagues and friends for their floral tributes on their recent bereavement.

#### BULLETIN NOTICE

The next Bulletin No 19/72 dated 22 May - 5 June will cover a period of two weeks. This is due to the Spring Holiday occurring 29 and 30 May.

#### FILM BADGE NOTICE

Period 6 commences Monday 15 May - colour strip YELLOW for B<sub>γ</sub> films and fast neutron packs. Please check that you are wearing the correct dosimeters and that all old ones are returned.

#### UNCLAIMED MAIL

A letter from the Canadian Government Travel Bureau addressed to R J Burleigh, Rutherford Laboratory can be obtained from the Editor.

#### RUTHERFORD LABORATORY LECTURE

The next lecture in this series will be at 3.15 pm on Thursday 25 May in the Rutherford Laboratory Lecture Theatre.

Dr A W Coombs of the Post Office Research Station will give a talk entitled: "The Advent of the Intelligent Machine". Fuller details will be given in the next Bulletin.

#### OPEN DAY

OPEN DAY will be held at Daresbury Nuclear Physics Laboratory on Tuesday 16 May.

#### CHRISTIAN FELLOWSHIP

Everyone welcome to a discussion on "Should a Christian have a Social Conscience" The meeting will be held in R12 Conference Room at 12.40 on Friday 19 May.

#### MISSING EQUIPMENT

Small Tripod "Quickset" is missing from the Photographic Section R58, anyone with information of its whereabouts please contact Mr H Edwards Ext 6177.

## INTERNAL EVENTS

### NIMROD LECTURE SERIES

Monday 15 May  
11.30  
Lecture Theatre

Report on Philadelphia Meeting on Mesons and Washington A P S Meeting

*Drs M Jane, Shah and Brown/RHEL*

### HEP DISCUSSION GROUP

Wednesday 17 May  
11.00  
Conference Room Building RI

Uncorrelated Jet Model

*Dr E H de Groot/Oxford*

### NIMROD LECTURE SERIES

Monday 22 May  
11.30  
Lecture Theatre

Phenomenological Model for Meson Baryon Scattering

*Dr R Roberts/RHEL*

### OVERSEAS VISITS

Dr J J Thresher to CERN 14 - 17 May to attend ECFA Executive Committee and Working Party Meeting on Experimental Areas. Mr P Bowles to CERN 14 - 16 May for discussions with Magnet and Power Supply Group. Miss S Loveridge to CERN 15 May to mid July to work on Neutron Trigger for Omega Project. Dr R J N Phillips to Grado Italy 15 - 21 May to give lectures at CERN School of Physics. Professor N H Lipman and Dr M R Jane to CERN 16 - 19 May to attend Omega Meeting. Dr R J Esterling to CERN 17 May to 15 June to set up Neutron Counters and Electronics for Omega Project and to attend Omega Meeting. Dr R A Rosner to CERN 18 - 23 May for discussions on the analysis of the Omega, I S R and SI04 experiments.

## NIMROD SCHEDULE

### CYCLE 6 16 5 72 - 6 6 72

### MACHINE PHYSICS

### HIGH ENERGY PHYSICS

<u>Team</u>	<u>Beam</u>	<u>Experiment</u>	<u>State</u>
Imperial College Southampton University	$\pi^+$ K12A	Studies of $\eta$ $\omega$ and A2 Tests of $K^+$ detectors	Data
Glasgow University RHEL	$\pi^+N_4$	Polarisation Measurements in $\pi^+p$ Charge Exchange	Setting up
Bristol University Southampton University RHEL	K15	$K^+p$ and $\pi^+p$ Differential Cross-Sections	Data
Oxford University	K10S P71	Study of Neutral States in $K^+p$ reactions Cherenkov Counter Tests for NAL Experiment	Data
Barts Medical College RHEL	$\pi^+11$	Radiobiological Experiment	Data
Cambridge University RHEL	K13C	Associated Production Cross Sections	Setting up
RHEL	K9	HBC - Technical Tests for future experiments	Data

# EXTERNAL EVENTS

THEORETICAL PHYSICS SEMINAR  
Monday 15 May  
14.30  
University of Manchester

"Isomer Shifts and the Monopole Polarization"  
*Professor A Kallio*

ELEMENTARY PARTICLE PHYSICS SEMINAR  
14.30  
Nuclear Physics Lecture Theatre  
Oxford

$\eta$ - $\eta'$  Mixing, SU(3) Symmetry and Amplitude Structure in  $KN \rightarrow \Lambda + (\text{meson})$  at Intermediate Energies.  
*Dr C Michael/CERN*

THEORETICAL PHYSICS DIVISION SEMINAR  
Tuesday 16 May  
14.00  
Conference Room Building 8.9  
AERE

Electrical and Magnetic properties of Non-Crystalline Materials  
*Professor Sir Nevill Mott FRS/University of Cambridge*

THEORETICAL PHYSICS SEMINAR  
Thursday 18 May  
14.30  
Department of Mathematics  
Royal Holloway College

Qualitative Discussion of Dual Resonance Models  
*Professor S Mandelstam/University of California*

COLLOQUIUM  
Friday 19 May  
16.15  
Clarendon Laboratory Oxford

Drag Forces on Ships  
*Dr G E Gadd/N P L*

THEORETICAL PHYSICS SEMINAR  
Monday 22 May  
15.45  
Queen Mary College London

The Hydrodynamic Model of a Bose Liquid  
*Dr B D Josephson/Cambridge*

NUCLEAR STRUCTURE SEMINAR  
Monday 22 May  
14.30  
Nuclear Physics Laboratory  
Oxford

Nucleon Spin Flip and other processes observed in Scattering  
*Dr F Schmidt/CERN*

RUTHERFORD LABORATORY BULLETIN

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Deadline  
for  
Insertions

GENERAL & SOCIAL NEWS  
Tuesday 1600

INTERNAL & EXTERNAL EVENTS  
Wednesday 1200

Room 40 Building R20  
Rutherford Laboratory  
Chilton Didcot Berks  
Abingdon 1900 Ext 6114

## SEVEN-A-SIDE SOCCER

## SOCIAL NEWS

3 May - Transport v Stores. In the first half Stores set a determined pace and it looked as though Transport's unbroken run of wins were in jeopardy. Bob Gillespie for Transport scored first but Stores quickly replied with a good goal. Three minutes to half time, from a Transport corner kick Martin Goddard put the ball into his own net. In the second half a disorganised and demoralised Stores team seemed to fall apart under the unrelenting pressure from Transport. It was only the efforts of Arthur Braham, the Stores goalkeeper, that kept the score respectable.  
Final Score: Transport 5 - Stores 1

5 May - R9 v Hall 3. In this game Hall 3, rated as 'underdogs' proved the forecasters wrong. R9 constantly trying to pierce the Hall 3 defence were kept at bay by solid defending. Hall 3 went into a first half lead by a fine volley shot by Wally Stanbrook. In the second half R9 conceded two goals. Final Score R9 Nil - Hall 3 3.

8 May Atlas v Drawing Office. This game was cancelled owing to a default by D O. The two points were awarded to Atlas.

Next weeks fixtures: Monday 15 May - R18 v Transport and Friday 19 May - R9 v R18.

### RUTHERFORD FOOTBALL

#### LEAGUE TABLE

5 MAY 1972

TEAMS	P	W	D	L	F	A	Pts
Transport	4	4	0	0	22	5	8
R 18	3	3	0	0	12	3	6
Stores	4	1	1	2	9	11	3
Hall 3	4	1	1	2	6	11	3
R 9	4	1	1	2	7	14	3
Atlas	4	1	1	2	5	13	3
R 25	3	0	2	1	5	6	2
D O	4	0	2	2	5	8	2

## FOLK CLUB

The Rutherford and Atlas Recreational Society Folk Club meets every Friday in R22 Coffee Lounge at 20.00 hours. Licensed Bar.

Appearing in the near future:-

26 May	Roger Stuccliff (Blues)
2 June	Dick Ganghan (Scottish Traditional)
9 June	Duncdain (English Traditional)
16 June	To be arranged - suggestions welcome from members
23 June	Pete and Ali Nalder
30 June	Tony Capstick (Traditional and Contemporary)
7 July	Joe Stead (very funny - banjo etc)
14 July	Rosie Hardiman (Contemporary)

For further details please contact Stephanie Hannan R22 Ext 6229.

## RUTHERFORD & ATLAS RECREATIONAL SOCIETY

This year SRC Sports Day will take place on Monday 19 June at the Civil Service Sports Ground at Chiswick.

The events will include: Tennis (mens and mixed doubles), Bowls; Six-a-Side Football; Netball and Chess. There will be a Social Evening afterwards. Names of participants to be in as soon as possible (26 May latest). Rutherford names to P Craske Building R2 Ext 232 and Atlas names to G Holt or R Brandwood Ext 6257.

## RECORD SOCIETY

Friday May 19 at 12.40 in the Lecture Theatre: Spinners and Cleo Lane.