



Rutherford
Laboratory

12-19 June 1972
bulletin 21

R(12), NDT(60,3), ISW(3500), ANGLE(12), NT(12), YMM(12),
(6,3), NACHT(48), XCEN(12), YCFN(12), TP(12), CHAR(6), AR
MMON/CFID/MFX(20,3), MFY(20,3), NFDX(10,3), NFX(3), NED(3), I
B(2,20,3), NX(100,4), NY(100,4), XN(2), YN(8), IB(100,1),
DY(100,2), JDX(4), JDY(4), IHS(4), IOV(2), IUN(2), IDE(1),
CF(16), IFS, NFS, FX, FY, JK, PIC, KPIC, NCOUNT, NBIN, MAXO, MA
AXN, CTA, CTB, MX, MY, JA, JB, JC, JD, JE, JF, XF(20,3), YF(3),
MMON/CJACK/NSY(20,30), NMS(20), NDR(20), A(10), A
(20), BX(20), NST1(20), NST2(20), INER(20), NSX(20,30), AWT(60

JOHN WILKINS AWARD



Mr R T Nickson receiving a John Wilkin's award for the most promising S A 1970-71, from the Director Dr G H Stafford on Monday 5 June 1972.

Robert Nickson had a very successful early academic career in the Laboratory, passing the General Examination in Science in 1965 and the ONC in Sciences in 1967. His marks in ONC were sufficiently good to earn him a place at the University of Aston for the Applied Physics sandwich course starting in September 1967. He went on to obtain Upper Second Class Honours in the final examination in 1971. He spent the three Industrial training periods associated with his sandwich course in the High Field Bubble Chamber Group, the Electronics Group and, most unusually, at the Swedish Institute of Surface Chemistry in Stockholm, where he foresook the usual fields of research familiar in the Rutherford Laboratory to work on lubrication problems. He was promoted to AEO in the summer of 1971, and since then he has been a member of the Nimrod Physics Development Group where he has been working mainly on computer control of the K9 beam line.

NIMROD POWER SUPPLY PLANT

During the month of May the Nimrod Magnet Power Supply Plant produced 927,426 pulses. This is the highest monthly total achieved to date. Of these pulses 45,581 were with a 4 GeV/c intermediate platform. Only one arc back has occurred on the converter plant in 2300 hours of operation during the first five months of this year. When the plant was originally commissioned the arc back rate was one in eight hours operation.

FILM BADGE NOTICE

Period 7 commences on Monday 12 June, colour strip PURPLE for 8y films and fast neutron packs. Please change your dosimeters promptly and return the old ones.

OVERSEAS VISITS

Dr J J Thresher to CERN 11 - 13 June to attend ECFA Exec Meeting. Dr Hong Mo Chan to Zakopane Poland 14-25 June to lecture and attend Conference. Drs C J S Damerell, T T Tso and B Ratcliffe to CERN 18-23 June to prepare S120 experiment. Dr W A Chapman and Messrs K J Harris and K Stone to SFAT Paris 19-21 June to inspect BEBC scanning tables. Dr G Manning to CERN 19-22 June to attend a CERN Users Meeting.

INTERNAL EVENTS

NIMROD LECTURE SERIES

Monday 12 June
11.30 a.m.
Lecture Theatre

Search for Magnetic Monopoles

P Eberhard/CERN and Berkeley

HEP DISCUSSION GROUP

Wednesday 14 June
11.00 a.m.
Conference Room Building RI

Isovector Form Factor and the ρ^+

G Shaw/DNPL

COMPUTING SEMINAR

Friday 16 June
11.00 a.m.
RI2 Conference Room

The Operational Environment

H Hurst/RHEL

Problems and experience in Operations will be discussed, in particular with regard to the current problem of the ever expanding tape library.

NIMROD LECTURE SERIES

Monday 19 June
11.30 a.m.
Lecture Theatre

Title to be announced

Dr G Bellethini/CERN

NIMROD SCHEDULE

CYCLE 7 6 6 72 - 27 6 72

MACHINE PHYSICS

HIGH ENERGY PHYSICS

<u>Team</u>	<u>Beam</u>	<u>Experiment</u>	<u>State</u>
Birmingham University RHEL	K12A	$K^+\eta$ Elastic Scattering and $K^+\eta$ Charge Exchange from 0.45-0.95 GeV/c	Data
Cambridge University RHEL	K13C	Associated Production Cross Sections	Setting up
Imperial College Southampton University	π^7	Studies of η ω and A_2	Data
Surrey University Birmingham University RHEL	π^{10}	Total Cross-Sections for Pions on Light Nuclei	Data
RHEL/UCL/Berkeley/ Torino	K9	4 GeV/c π^+p interactions in track sensitive target	Data
Glasgow University RHEL	π^9, N_4	Polarisation Measurements in π^-p Charge Exchange	Parasitic
Bristol University Southampton University RHEL	K15	K^+p and π^+p Differential Cross-Sections	Parasitic

EXTERNAL EVENTS

ELEMENTARY PARTICLE PHYSICS SEMINAR

Tuesday 13 June
2.30 p m
Nuclear Physics Lecture Theatre
Oxford

Measurement of the Polarisation in backward π^-p and π^+p Elastic Scattering at 6 GeV/c

Miss Cheryl Spencer

THEORETICAL PHYSICS SEMINAR

Tuesday 13 June
2.00 p m
Theoretical Physics Division
Building 8.9 AERE

The Status of Molecular Wavefunction Calculation Today

Professor C A Coulson

DARESBURY LECTURE SERIES

Tuesday 13 June
2.00 p m
DNPL

Utilisation of CERN 11 to Study Electromagnetic Interactions

Dr E Gabathuler/DNPL

THEORETICAL PHYSICS SEMINAR

Wednesday 14 June
2.30 p m
University of Manchester

A Theoretical Physicists Viewpoint on Ecology

Dr N Macdonald/Glasgow

COLLOQUIUM

Wednesday 14 June
4.30 p m
Room 318 APSI New Building
University of Reading

An Engineers View of the Pterodactyl

Dr G Whitfield & Mrs C Bramwell

THE INSTITUTE OF PHYSICS MEETING

Wednesday 14 June
2.00 p m
Lecture Theatre A College Block
Imperial College London

Superconductivity and Electronics (Details available from the Editor) Tickets not required.

ELEMENTARY PARTICLE THEORY SEMINAR

Friday 16 June
2.30 p m
Old Library, Nuclear Physics
Building Oxford

Parametrization of Overlapping Resonances

I J R Aitchison/Oxford

RUTHERFORD LABORATORY BULLETIN

Published by the Scientific Administration Group

Acting Editor: F HARDEN

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

pmr

MISSING EQUIPMENT

Pulse Generator Labgear Type D4147 Serial No 0051. Anyone knowing the present whereabouts of this item please contact Mr J F Smith Ext 6651.

UNDELIVERED MAIL

Would anyone having a letter addressed to the Rutherford Laboratory quoting 20 printed boards BCC/034 please contact Mr M Morrissey Ext 6230.

SOCIAL NEWS

CHRISTIAN FELLOWSHIP

Friday 16 June. During the past few weeks the Fellowship has been having discussions on "Should all Christians have a Pentecost Experience". These have proved to be lively and everyone is welcome to join us for the final meeting on this subject at 12.30 p m in R12 Conference Room.

FOLK CLUB

The Rutherford and Atlas Recreational Society Folk Club meets every Friday in R22 Coffee Lounge at 8.00 p m. Licensed Bar.

Friday 9 June. The Club are presenting for the first time
Dunedain:- Ian, John, Mike and Tony sing songs from all periods.
They have played in clubs, colleges and concerts all over England.
Mike plays:- Recorders, crumhorn, melodian and concertina.
Tony:- Vocals guitar, mandolin, treble descant and Tenor recorder.
John:- Vocals, sopranino, descant, crumhorn, treble and tenor recorders.
Ian:- Vocals, tambourines, tabours and bells.

"Tappster" is one of the shortest pieces they do - only 50 seconds long. Dated late 14th century, it is written and sung in middle English. It is a lusty, rhythmic 'drinking song' that loudly proclaims (?).

Friday 16 June. Richard of Reading (Contemporary Guitarist).