



Rutherford
Laboratory

R(12), NDT(60,3), ISW(3500), ANGLE(60), YINT(60), DUMMY(86),
(6,3), NACHT(48), XCEN(12), CEN(12), RS(12), CHA(12), R
MMDN/CFID/MFX(20,3), MFY(20,3), NFDA(10,3), NFX(3), NFD(3), I
B(2,20,3), NX(100,4), NY(100,4), XN(2), YN(8), IB(100,1), X
DY(100,2), JDX(4), JDY(4), IHS(4), IDV(2), IUN(2), ID(2), DE
CF(16), IFS, NFS, FX, FY, JK, PIC, KPIC, NCOUNT, NBIN, MAX, UN
AXN, CTA, CTB, MX, MY, JA, JB, JC, JD, JE, JF, XF(20,3), YF(10,3),
MMDN/CJACK/NSY(20,30), NMS(20), NDR(20), NS(20), XA(6), FA
(20), BX(20), NST1(20), NST2(20), INER(20), A(30), A(60)

21 May-4 June 1973
bulletin 19

APPOINTMENT OF A NEW CHAIRMAN OF SRC

The Secretary of State for Education and Science will soon announce the appointment of Professor S F Edwards FRS, John Humphrey Plummer Professor of Physics at the University of Cambridge, as my successor with effect from 1 October 1973. Until he takes over from me as Chairman Professor Edwards will be a member of Council. I wish all Council employees to have this information in advance of reading it in the Press. A note on Professor Edwards' career and interests is given below.

B H Flowers

London Office

Chairman

11 May 1973

PROFESSOR SAMUEL FREDERICK EDWARDS FRS

Professor Edwards was educated at Swansea Grammar School, Gonville and Caius College, Cambridge, and Harvard. Before being appointed to his present position he held posts at Birmingham and Manchester Universities. He was elected a Fellow of the Royal Society in 1966 and has been a Vice-President of the Institute of Physics since 1970. He served as a member of the Council of the European Physical Society from 1969 - 71. He has been a member of various committees of the Science Research Council since 1968 and of the Council's Science Board since 1970. In 1971 he was appointed a member of the University Grants Committee.

Professor Edwards' interests lie mainly in chemical physics where he studies the properties of rubbers and plastics, basing their properties on their molecular architecture. He also has an interest in the application of modern theoretical physics to industrial problems, and has collaborated in the study of problems arising from reactor design and plasma physics.

Professor Edwards is 45 years of age, married with three daughters and a son, all teenagers. He lives in Newnham in West Cambridge. His relaxations are found in gardening and chamber music.

RUTHERFORD LABORATORY LECTURE

The next lecture in the series will be given by Professor R Wilson of University College London at 15 15 on Thursday 24 May in the Lecture Theatre.

Professor Wilson joined AERE Harwell in 1957 moving to the Culham Laboratory in 1958 as Head of the Spectroscopy Division. When the SRC became responsible for the unit, renamed the Astrophysics Research Unit (ARU) in December 1967, he continued as its Head. At the beginning of 1973 Professor Wilson resigned to become Perren Professor of Astronomy at UCL. The ARU became the Astrophysics Research Division of the Radio and Space Research Station under the Directorship of Dr J A Saxton. Professor Wilson is a Fellow of the Royal Astronomical Society, a Fellow of the Institute of Physics and project scientist on the International Ultra violet Experiment.

The title of his talk on 24 May is 'The Solar Corona'.

'The existence of a corona surrounding the sun was known since the earliest eclipse expeditions at the end of the last century but its basic physical nature eluded astrophysicists for nearly fifty years. The realisation that it was a very hot ($\sim 10^6$ K) plasma initiated extensive studies which were greatly amplified by the more recent observations from rockets and satellites. The nature of the medium and the manner by which it is heated will be discussed'.

FILM BADGE NOTICE

Period 6 commences Monday 21 May. Colour Strip - BLUE for 8y films and neutron packs.

Please change your dosimeters promptly and return all old ones.

Six monthly dosimeter change for people with surnames commencing U V W X.

INTERNAL EVENTS

NIMROD LECTURE SERIES

Monday 21 May
11.30
Lecture Theatre

$\bar{p}p \rightarrow 2\pi$, 2K Between 0.7 and 2.4 GeV/c

Dr A Parsons/RHEL

OPEN MEETING ON RUTHERFORD MULTIPARTICLE SPECTROMETER

Monday 21 May
14.00
Lecture Theatre

Preliminary Agenda -

- | | | |
|-------|--|---|
| 14.00 | Proposed Design Layout of Facility | - W Toner/RHEL |
| 14.45 | The Omega Spectrometer at CERN | - J Dowell/Birmingham |
| 15.30 | Physics with the RMS | - P March/Westfield College |
| 16.30 | Current Status of Development Work on
Capacitative Readout and Drift Chambers | - M Green/Westfield College
E Bateman/RHEL |

It is expected that the talks will be sufficiently short to allow ample time for discussion.

HEP DISCUSSION GROUP

Wednesday 23 May
11.00
Lecture Theatre

Gauge Models for Hadrons and Leptons

Dr G Ross/RHEL

RUTHERFORD LABORATORY LECTURE

Thursday 24 May
15.15
Lecture Theatre

The Solar Corona

Professor R Wilson/UCL (see page 1 for details).

SEMINAR IN COMPUTING

Friday 1 June
11.00
Conference Room, Building R12

C & A Division - Progress Reports

NIMROD LECTURE SERIES

Monday 4 June
11.30
Lecture Theatre

K^+p Elastic Scattering Below 1 GeV/c and Phase Shift Analysis

Dr J Dowell/University of Birmingham

NIMROD SCHEDULE

CYCLE 4 15-5-73 - 5-6-73

MACHINE PHYSICS

HIGH ENERGY PHYSICS

<u>Team</u>	<u>Beam</u>	<u>Experiment</u>	<u>State</u>
HBC/UCL/BRUSSELS	K19	Stopped K^- in H_2 - Track Sensitive Target	Setting up
BRISTOL/SOTON/RHEL	K15	π^+p Differential Cross-Sections	Data
CHURCHILL HOSPITAL/ BART'S MEDICAL COLLEGE/ RHEL.	π 11	Radiobiological Experiments	Data
COUNTER GROUP A/ DETECTORS GROUP	π 8	Proposal Studies and Detector Evaluation	Tests
BIRMINGHAM/SURREY/RHEL	K17	Stopping Kaons	Setting up
CERN/ORSAY/OXFORD	P81	Hadron-Proton Spin	Setting up

EXTERNAL EVENTS

THEORETICAL PHYSICS SEMINAR

Monday 21 May
16.15
Queen Mary College

Recent Results in Hamiltonian Dynamics

Dr J Rae/QMC

PHYSICS & GEOPHYSICS COLLOQUIUM

Monday 21 May
17.00
University of Bristol

Towards a Controlled Thermonuclear Reactor

Dr R S Pease/Director, Culham Laboratory

ELEMENTARY PARTICLE THEORY SEMINAR

Friday 25 May
14.20
Nuclear Physics Lab., Oxford

Transverse Momentum Correlations and the Slope of Forward Elastic Scattering

Dr S Chadha/McGill

COLLOQUIUM

Friday 25 May
16.15
Clarendon Lab., Oxford

The Influence of Pressure and other Parameters on Superconductivity

Professor J L Olsen/ETH, Zurich

THEORETICAL PHYSICS SEMINAR

Wednesday 30 May
14.30
University of Manchester

Pion Nucleus Scattering at High Energies

Professor D F Jackson

APPLIED PHYSICS COLLOQUIUM

Wednesday 30 May
16.30
University of Reading

Energy in the Future

Professor P D Dunn/Reading

THEORETICAL ASTROPHYSICS SEMINAR

Thursday 31 May
14.30
Dept of Astrophysics, Oxford

Pulsar Magnetosphere Theory

Dr V G Endeian/Oxford

ELEMENTARY PARTICLE THEORY SEMINAR

Friday 1 June
14.20
Nuclear Physics Lab., Oxford

Title to be announced

Dr I Halliday/Imperial College

EVENTS AT AERE

THEORETICAL PHYSICS SEMINAR

Tuesday 22 May
14.00
Conference Room, Building 8.9

Thermal Convection

Dr R S Peckover/Culham Laboratory

NUCLEAR PHYSICS COLLOQUIUM

Friday 25 May
14.30
Room 1, Training Centre

The Origins of the Light Elements

Professor D W Sciama/Dept of Astrophysics, Oxford

RUTHERFORD LABORATORY BULLETIN

Published by the Scientific Administration Group

Deadline
for
Insertions

GENERAL & SOCIAL NEWS

Tuesday 1600

INTERNAL & EXTERNAL EVENTS

Wednesday 1200

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BULLETIN NOTICE

The next issue of the Bulletin will be published on Friday 1 June. Items for inclusion in this issue should be sent to Room 42, R20, if possible before the Spring Holiday. Enquiries normally dealt with by the Editor should however be directed to Mr F Harden, Extension 6114 for the next two weeks.

OVERSEAS VISITS

Mr L G Denton, to CERN, 20 - 25 May to commission gas purification system.

Dr I F Corbett, to CERN, 21 - 25 May to test and install new electronic equipment for start of Omega run on 24 May.

SOCIAL NEWS

RUTHERFORD AND ATLAS RECREATIONAL SOCIETY

At the AGM on 2 May 1973 the following officers and committee members were elected:-

Chairman - P Craske; Hon. Secretary - J Rice; Hon. Treasurer - D Evans

Committee - Mrs T Batchellier, R Roberts, G Howard, E Thomas
(there are two vacancies on the committee)

Contacts for the various activities at Rutherford and Atlas are as follows:-

Football - G Howard, R18, Ext 6115	Bowls - N Ferguson, R2, Ext 438
Cricket - P Craske, R2, Ext 232	Model Railway - R Roberts, R25, Ext 234
Chess - G Sandels, R2, Ext 320	Angling - P Craske, R2, Ext 232
Music - Mrs M Stoker, R1, Ext 270	Folk Club - Mrs A Bishop, R1, Ext 6622

For any other activity not mentioned above and all general information please contact the Hon. Secretary - J Rice, R2, Ext 6694.

CHRISTIAN FELLOWSHIP

Friday 25 May, 12.30, Conference Room, Building R12. Dr John Savage of the Medical Research Council will be leading the meeting on 'The Nature of Man'. This is the second talk in the series entitled 'A Christian View of Man', and all are invited to attend.

Friday 1 June, 12.30, Conference Room Building R12. "..... and while they stood watching, He was taken up; and a cloud received Him out of their sight". The Rev E Atkins of Harwell Parish Church will be talking on the Ascension of Jesus Christ into Heaven. All are welcome to attend this meeting.

RECORD SOCIETY

Tuesday 22 May at 12.40 Lecture Theatre

Jazz Moments - George Shearing

SEVEN-A-SIDE SOCCER

LEAGUE FIXTURES

Fortnight Beginning - 21 May

Monday 21 May - RHG v R55
Tuesday 22 May - GO v R25
Wednesday 23 May - App v C A Div
Thursday 24 May - Admin v Casuals
Friday 25 May - R55 v Trans.

Thursday 31 May - App v R9
Friday 1 June - GO v 351

Note: Due to circumstances beyond the organisers control, these fixtures may be changed.

FOOTBALL LEAGUE TABLE - 16 MAY

TEAMS	P	W	D	L	F	A	Pts
351	8	8	0	0	35	4	16
GO	5	4	1	0	26	11	9
R25	7	3	3	1	8	6	9
Admin	7	4	1	2	19	16	9
Atlas	6	3	1	2	21	18	7
C A Div	6	2	2	2	13	10	6
R 9	7	2	1	4	9	14	4
Casuals	6	2	0	4	8	15	4
R55	6	2	0	4	7	22	4
Trans	6	1	1	4	11	11	3
Apprentices	6	1	0	5	13	26	2
R H G	6	1	0	5	7	24	2