



Rutherford
Laboratory

R(12), NDT(60,3), ISW(3500), ANGLE(60), YINT(60), DUMMY(84),
[6,3], NACHT(48), XCEN(12), YCFN(12), HA(12), R
MMON/CFID/MFX(20,3), MEY(20,3), NFDX(10,3), NFX(3), NFD(3), I
B(2,20,3), NX(100,4), NY(100,4), XN(2), YN(8), IB(100,3), IX(1
DY(100,2), JDX(4), JDY(4), IHS(4), IOV(2), IUN(2), IDE(2), IE
CF(16), IFS, NFS, FX, FY, JK, PIC, KPIC, NCOUNT, NBIN, MAXI
AXN, CTA, CTB, MX, MY, JA, JB, JC, JD, JE, JF, XF(20,3), YF(2
MMON/CJACK/NSY(20,30), NMS(20), NDR(20), NSP(20), XA(60)
(20), BX(20), NST1(20), NST2(20), INER(20), ITO(20), IAK(20)

14-21 May 1973

bulletin 18

VISIT BY THE SCIENCE
RESEARCH COUNCIL, 15/16
MAY.

The Science Research Council has a tradition of holding its May meeting at one of its establishments instead of at State House. This year it is our turn to play host; the previous occasion was in 1969. In addition to their formal meeting on Wednesday morning (16 May), the Council, Assessors and Secretariat will spend Tuesday and Wednesday afternoons seeing some of the work of the Rutherford and Atlas Laboratories. The major emphasis will be on the computing facilities at both Laboratories, but other RHEL activities will also be shown. Those people responsible for guiding the visitors and demonstrating exhibits have already been notified.

On Wednesday 16 May, part of the dining area in the restaurant will be in use for the Council lunch. Restaurant users are urged to eat early on that day (service will start at 11.30). There will be fewer places than usual and some people (eg exhibit demonstrators) may be forced to lunch late. A Rutherford Laboratory Circular giving further details will be issued shortly.

FILM BADGE NOTICE

It is Period 5. Colour Strip - YELLOW for B_γ films and neutron packs.

Please check that you are wearing the correct dosimeter and that all old ones are returned.

Next film change - Monday 21 May.

BULLETIN NOTICE 1

The next Issue of the Bulletin, No 19 will cover two weeks. Items for inclusion should be sent to the Editor, not later than 16.00 hours on Tuesday 15 May for General and Social News and noon on Wednesday 16 May for Internal and External Events.

BULLETIN NOTICE 2

Will contributors from outside the Laboratory please send their information directly to the Editor - the address is shown at the bottom of page 3 - thereby ensuring prompt attention.

EXTERNAL CONFERENCES

The following list of external conferences is included for general interest, more details on some of these can be obtained from the Editor.

- | | | |
|-----------------|---|--|
| 30 May - 1 June | : | The Use of Low Energy Accelerators - London |
| 3 - 12 June | : | International Mathematical Summer Center, Session on Complex Analysis - Bressanone, Italy. |
| 11 - 16 June | : | Finnish Summer School in Nuclear Physics - Liperi, Finland. |
| 17 - 30 June | : | CERN/JINR School of Physics - Ebeltoft, Denmark. |
| 17 - 26 June | : | International Mathematical Summer Center, Session on New Variational Techniques in Mathematical Physics - Bressanone, Italy. |
| 18 - 22 June | : | 5th Conference on High Energy Physics and Nuclear Structure - Uppsala, Sweden. |
| 23 - 24 August | : | 5th International Conference on High Energy Collisions - Story Brook, USA. |
| 24 Aug - 2 Sept | : | International Mathematical Summer Center - Session on Spectral Analysis - Varenna, Italy. |

OVERSEAS VISITS

Mr D C Salter, to ILL Grenoble, 13 - 18 May, for discussions with ILL staff on schedules, new proposals, instrumentation and ancillary apparatus.

Dr Takeo Inami, to CERN and University of Karlsruhe, 13 May - 8 June for discussions.

Dr J B Forsyth, to ILL Grenoble, 14 - 18 May for design discussions on new polarised beam diffractometer.

The Director, to CERN, 16 - 17 May, to attend CERN Committee of Council.

Dr C J Batty, to CERN, 17 - 18 May for discussions with Dr C Wilkin and others on the analysis of total cross-section results.

INTERNAL EVENTS

NIMROD LECTURE SERIES

Monday 14 May
11.30
Lecture Theatre

Comparison of Medium Energy Data with ISR Results

Dr R Stroynowski/CERN

BRITISH CRYOGENICS COUNCIL

Monday 14 May
14.00
Lecture Theatre

Meeting of the Research Committee of the B C C

Attendance is by invitation only

HEP DISCUSSION GROUP

Friday 18 May
11.00
Lecture Theatre

Recent Results from the Argonne Effective Mass Spectrometer

Dr D Ayres/ANL

SEMINAR IN COMPUTING

Friday 18 May
11.00
Conference Room, R12

Telecommunications on the 195

P Girard and P J Hemmings

The workstation/terminal system is controlled in the 195 by HASP and MAST, HASP looking after workstations while MAST supervises all terminals both on and off-site. A description will be given of the basic methods used and techniques employed.

This talk is aimed at the non-specialist - it is a repeat of that given recently to the 195 Group Representatives.



Friday 18 May
12.40
Lecture Theatre

FILM
SHOW

Out of Darkness - a 20 minute colour film

In Christian Aid Week we are showing a vivid and very dramatic new film entitled 'Out of Darkness' in which the narrator is Eric Porter. The film is a portrayal of violence and rejection as viewed from the Indo-Pakistan border, a doorstep in an English back street and a hill called Golgotha outside Jerusalem. It has something to say to the whole community, Christians and non-Christians alike, about race relations, about the evil of poverty and about the agony of being a refugee.

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

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.	$\pi 11$	Radiobiological Experiments	Data
COUNTER GROUP A/ DETECTORS GROUP	$\pi 8$	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 14 May
6.15
Queen Mary College

Some Problems in Relativistic Statistical Mechanics

Dr J Rae/QMC

PHYSICS & GEOPHYSICS COLLOQUIUM

Monday 14 May
17.00
University of Bristol

Tidal Deformations of the Solid Earth

Dr T F Baker/Institute of Oceanography and Tides, Birkenhead

THEORETICAL PHYSICS SEMINAR

Wednesday 16 May
14.30
University of Manchester

Interstellar Molecules

Professor A H Cook/Cambridge

APPLIED PHYSICS COLLOQUIUM

Wednesday 16 May
16.30
University of Reading

Industrial Uses of Diamond

Professor R W Ditchburn

LOW TEMPERATURE & SOLID STATE PHYSICS SEMINAR

Thursday 17 May
14.30
Clarendon Lab., Oxford

Electrons and Phonons in Small Gap Semiconductors

Professor M Balkanski/Paris

THEORETICAL ASTROPHYSICS SEMINAR

Thursday 17 May
14.30
Dept of Astrophysics Oxford

Spinor Optics

Dr H G Hughes/(Maryland & Oxford)

THEORETICAL PHYSICS SEMINAR

Thursday 17 May
16.15
Clarendon Lab, Oxford

Continuous Metal - Nonmetal Transitions in Disordered Materials

Professor Morrel H Cohen/Chicago and Cambridge

EVENTS AT AERE

THEORETICAL PHYSICS SEMINAR

Tuesday 15 May
14.00
Conference Room, Building 8.9

Inner Shell Processes in Ion-Atom Collisions

Dr J S Briggs/AERE

NUCLEAR PHYSICS COLLOQUIUM

Friday 18 May
14.30
Room 1, Training Centre

Control of Development in a Simple Living Organism

Professor M H Cohen/J Frank Institute, Chicago

RUTHERFORD LABORATORY BULLETIN

Published by the Scientific Administration Group

Editor: H F NORRIS

Deadline
for
Insertions

GENERAL & SOCIAL NEWS

Tuesday 1600

INTERNAL & EXTERNAL EVENTS

Wednesday 1200

Room 42 Building R20
Rutherford Laboratory
Chilton Didcot Berks
Abingdon 1900 Ext 484

SOCIAL NEWS

RECORD SOCIETY

Tuesday 15 May, 12.40 In the Lecture Theatre

Viola Concerto - Walton and Epic March - Ireland

William Walton's Viola Concerto is undoubtedly one of the composer's finest works and is considered by some to be the greatest concerto ever written for the instrument. It was written in 1929 when Walton was beginning to make a name for himself, and later revised for a somewhat smaller orchestra in 1961. It is here given a superlative performance, on a stereo recording, by the American soloist, Paul Doktor with the London Philharmonic Orchestra conducted by Edward Downes.

The concert will conclude with John Ireland's stirring 'Epic' march. This work, commissioned by the BBC was written in 1942, "in the dark days of war". The L P O is featured again, this time under the baton of Sir Adrian Boult. (thinks - could this become as popular as a certain tune from the Enigma Variations played to distraction on 24 April 1964? - Ed.).

CHRISTIAN FELLOWSHIP

Friday, 18 May. All are welcome to attend a film show in the Lecture Theatre at 12.40 on the work of Christian Aid. (for details of film see Internal Events).

Martin Wilson will introduce the film and there will be time for any discussion or questions afterwards.

A M S CONCERT

On Saturday, 19 May at 20.00 hours in St Helen's Church, Abingdon, a performance of Michael Tippett's oratorio "A Child of Our Time" and Beethoven's cantata "Calm Sea and Prosperous Voyage" will be given by the Abingdon and District Musical Society. Tickets 40p (Children 25p). The concert will be preceded by a 15 minute address on Christian Aid by Mr James Cobban, previous headmaster of Abingdon School.

SEVEN-A-SIDE SOCCER

LEAGUE FIXTURES

Week Beginning - 14 May

Monday 14 May - R9 v Admin
Tuesday 15 May - App v R25
Wednesday 16 May - Admin v G O
Thursday 17 May - Casuals v R H G
Friday 18 May - Trans v Atlas

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

FOOTBALL LEAGUE TABLE - 9 MAY

TEAMS	P	W	D	L	F	A	Pts
351	7	7	0	0	33	3	14
R25	6	3	3	0	7	4	9
GO	4	3	1	0	20	8	7
Admin	5	3	1	1	13	9	7
Atlas	6	3	1	2	21	18	7
CA Div	6	2	2	2	13	10	6
R9	6	2	1	3	8	11	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
RHG	6	1	0	5	7	24	2