



R(12), NDT(60,3), ISW(3500), ANGLE(60), YINT(60), DUMMY(60),
(6,3), NACHT(48), XCEN(12), YCF(12), PAR(12), CH(12), AR
MMON/CFID/MFX(20,3), MFY(20,3), NFDX(10,3), NFX(3), NFD(3), I
B(2,20,3), NX(100,4), NY(100,4), XN(2), YN(8), TB(100,2), I
DY(100,2), JDX(4), JDY(4), IHS(4), IDV(2), IUN(2), IDE(1), DE
CF(16), IFS, NFS, FX, FY, JK, PIC, KPIC, NCOUNT, NBIN, MAXO, MAJON
AXN, CTA, CTB, MX, MY, JA, JB, JC, JD, JE, JF, XF(20,3), YF(20,3)
MMON/CJACK/NSY(20,30), NMS(20), NDR(20), NSX(20,30), KA(100,1) YA
(20), BX(20), NST1(20), NST2(20), INER(20), NSX(20,30), AWT(60)

13-20 March 1972
bulletin 11

NIMROD POWER SUPPLIES

The installation and commissioning of the new flywheels for the main Nimrod Magnet power supply were successfully completed in February 1972.

This completes the rotating plant spares and modification programme, which commenced early in 1969.

NIMBUS 'E' GROUNDED AT PHYSICAL SOCIETY

A list of the Rutherford Laboratory's exhibits at the forthcoming Physical Society Exhibition was given in last week's Bulletin. A separate exhibition put on by the Laboratory in conjunction with Oxford and Heriot-Watts Universities will show the engineering model of the Nimbus 'E' SRC experiment together with the bench test equipment, in working mode. Both the model and test equipment were made at the Laboratory. The flight model is now in the USA for integration and incorporation in the satellite and is due for launch in November 1972.

METRICATION TRAINING

The first stage of the Laboratory's formal Metrication Training Programme will commence on Tuesday 14 March. This will be the first day of 3 - two-day Metrication Training Courses for engineers and designers and will be held in the Lecture Theatre commencing at 09.30 a.m. Attendance at this, and the two following courses in this series is by nomination only.

BLOOD DONOR CLINIC

The next clinic on Monday 20 March and Tuesday 21 March will now be held in the Directors Conference Suite, Building R1. The response to the request made in Bulletin No 9 and notices on various notice boards has been extremely good, probably more than doubling previous efforts. Next time - what about doubling this figure again? Its a very worthy cause as well as free tea and biscuits. There is still time to sign on for this clinic - even come along on one of the two days!

FILM BADGE NOTICE

It is Period 3. Colour Strip - GREEN for B_y films and fast neutron packs. Please check that you are wearing the correct dosimeters and that all old ones are returned.

FOUND

Sums of money have been found on the lunch-time shopping bus and in Building R25. A quantity of tea has also been found in the Blue Car Park. Enquiries to Mrs C E Smith Building R1 Ext 6693.

360 COMPUTER NEWS

It is hoped on Monday 13 March to introduce the Release 20.1 Compilers, Group Libraries, new Procedure names and the Express Job class (CLASS = X). Please see 195 Computer Bulletins 6 and 7 for full details.

FINNISH SUMMER SCHOOL IN PHYSICS

The seventh Finnish Summer School in Physics will take place at Loma-Koli, Finland from 26 June to 7 July 1972. The main subject of the school is modern developments in hadron physics. Further information from the Editor.

OVERSEAS VISITS

Mr D A Gray, Mr N M King and Mr G H Rees to CERN, 12 - 16 March to attend meetings on the 300 GeV project.
Dr G Manning to CERN 16 - 21 March to have ISR discussions and work on experiment.
Dr N H Lipman to CERN 15 - 19 March to attend a project meeting and to discuss progress of Plumbicon Project.
Dr J J Thresher to CERN 16 - 17 March to attend ECFA working party meeting on experimental areas.

INTERNAL EVENTS

NIMROD LECTURE SERIES

Monday 13 March
11.30
Lecture Theatre

CP-, T-, and CPT- Invariances in Neutral K- Decay

Dr G V Dass/DESY

HEP DISCUSSION GROUP

Wednesday 15 March
11.00
Conference Room Building RI

Speaker and Title to be announced

FILM SHOW

Wednesday 15 March
13.15
Thursday 16 March
12.40
Lecture Theatre

Night Driving, a 13½ minute colour film

This film from the Institute of Advanced Motorists and sponsored by the 3 M's Company, is essentially simple and straightforward in character. It sets out some of the special precautions and driving techniques for a safe journey for you and your family when travelling during the hours of darkness. About 42 per cent of the people killed on Britians roads each year are night fatalities although there is only one third the traffic. This fact alone is more than sufficient to warrant the closest attention to the advice offered in this film in which the commentary is given by Robert Dougall.

NIMROD LECTURE SERIES

Monday 20 March
11.30
Lecture Theatre

Recent Development in the Theory of Weak Interactions

Professor M Veltman/Utrecht

NIMROD SCHEDULE

CYCLE 3 14.3.72 - 4.4.72

MACHINE PHYSICS

HIGH ENERGY PHYSICS

<u>Team</u>	<u>Beam</u>	<u>Experiment</u>	<u>State</u>
Birmingham University RHEL	K12A	K ⁺ n Elastic Scattering and K ⁺ n Charge Exchange from 0.45-0.95 GeV/c	Data
Cambridge University RHEL	K13C	Associated Production Cross Sections	Setting up
Imperial College Southampton University	π7	Studies of η ω and A2	Setting up
Surrey University Birmingham University RHEL	π10	Total Cross-Sections for Pions on Light Nuclei	Setting up
RHEL	K9	HBC-Technical Tests for Future Experiments	Data
Glasgow University RHEL	π9,N4	Polarisation Measurements in π ⁻ p Charge Exchange	Setting up
Bristol University Southampton University RHEL	K15	K ⁺ p and π ⁺ p Differential Cross-Sections	Setting up
Westfield College RHEL	π8	Neutron Counter Tests for Ω Project	Setting up
Oxford University	P71	Cherenkov Counter Tests for NAL Experiment	Setting up

EXTERNAL EVENTS

THEORETICAL PHYSICS SEMINAR

Monday 13 March
16.15
Queen Mary College

Symmetry Principles in β -Decay and Second Class Currents

Professor J Bernstein/Stevens Institute and Oxford

PHYSICS & GEOPHYSICS COLLOQUIUM

Monday 13 March
17.00
University of Bristol

Microdefects in Silicon Single Crystals

Dr A J R de Kock/Phillips Research Laboratories, Eindhoven

DARESBURY LECTURE SERIES

Tuesday 14 March
14.30
Daresbury Laboratory

K^+P Interactions in the Range 1 - 2 GeV/c

I Butterworth/Imperial College

BRITISH COMPUTER SOCIETY - OXFORD BRANCH MEETING

Tuesday 14 March
20.15
Oxford University Maths
Institute

STAR - A New Approach to Computing

M H J Baylis/Control Data Limited

INSTITUTE OF MATHEMATICS

PRESIDENTIAL ADDRESS

Wednesday 15 March
17.30
Russell Hotel, London

Mathematics and the Real World

Professor C A Coulson

EVENTS AT AERE

THEORETICAL PHYSICS SEMINAR

Tuesday 14 March
14.00
Conference Room Building 8.9

The Structure and Dynamics of Small Atomic Clusters

Dr M Hoare/Bedford College

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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

CHESS TOURNAMENT 1971/72

The winner of this years tournament was Bill Turner with 8½ points. Another fine performance, again completing the tournament undefeated. In second place was Peter Hemmings with 7 points and third with 6½ points Keith Le Page. Bill will be presented with his prize as soon as possible and all players will be informed when this is due to take place, by Peter Craske. Peter also wishes to thank all the players for their co-operation in running the tournament and to congratulate Bill on his fine win, to which we should like to add our congratulations.

RECORD SOCIETY

Due to the Metrication Courses (see page 1) which will be running in the Lecture Theatre on Tuesdays, it will be necessary to make changes in times and dates for record society concerts. Please do not enter the Lecture Theatre before checking with the Coffee Lounge notice board. This week the concert will be at 12.30 p m on Tuesday 14 March.

Overtures of Old Vienna - Vienna Philharmonic Orchestra conducted by Willi Boskovsky.

Vienna, a city with three opera houses, which not only loves music but lives it. The overtures on this record come from the pens of four composers; Nicolai, Reznicek, Heuberger and of course, Johann Strauss, all of whom came, in one way or another under the spell of Vienna. The orchestra in this recording is the Vienna Philharmonic, what more can one say!

SEVEN-A-SIDE SOCCER

The following fixtures have been arranged between AERE and Rutherford Laboratory League teams as a prelude to our own league programme which begins on 21 March 1972. These matches will give the Laboratory's teams a chance to try themselves out against the well proven and more established AERE sides. We extend a sporting welcome to the AERE players but we hope you will come along and give the Rutherford teams your support. The fixtures listed below will be played on the Rutherford Laboratory ground opposite R18. Kick off times - 12.40 p m. (15 minutes each way).

	<u>Rutherford Laboratory Teams</u>	<u>AERE Teams</u>
Tuesday 14 March	Drawing Office (Capt) Dave Lucas	V Bldg 351 (Capt) Dr Ivan Newson
Wednesday 15 March	Stores (Capt) Bill Wallace	V Bldg 501 (Capt) Peter Standring
Thursday 16 March	R 18 (Capt) Jeff Bizzell	V Admin (Capt) Mic Lovell
Friday 17 March	Hall 3 (Capt) Peter Spurr	V App A Team (Capt) Alan Bray

CHRISTIAN FELLOWSHIP - FILM SHOW

Don't forget the film show at 12.30 p m on Friday 17 March in the Lecture Theatre when "MAF (Missionary Aviation Fellowship) in New Guinea" will be featured. Lasting 28 minutes it describes the work of the Missionary Aviation Fellowship in many tropical countries where jungle, desert, swamp or mountain make surface travel extremely difficult or impossible.

FOLK CLUB

It is nice to be right sometimes. The opening night of the new club was, as anticipated in Bulletin No 9, a great success. Some 120 people fought their way through jungle, desert and swamp (the A34) to join in the fun and from all accounts thoroughly enjoyed themselves. The guest artist was heard to remark that it was one of the best behaved and appreciative audiences he had met.

The Guest Artist on Friday 17 March is Bob Axford who hails from London. An excellent guitarist he specialises in contemporary and ragtime. Candles lit at 8 p m in the Coffee Lounge R22 tickets 20p.

TAIL PIECE

Overheard in the corridors of R1 "you tell computers what to do in words of one digit".