

R(12), NDT(60,3), ISW(3500), ANGLE(60), YINT(60), DUMMY(84), (6,3), NACHT(48), XCEN(1211-18)(I December TC 1972, AR MMON/CFID/MFX(20,3), MFY(20,3), NFDX(10,3), NFX(3), NFD(3), IB(2,20,3), NX(100,4), NY(100,4), XN(2), YN(8), IB(10,20), DY(100,2), JDX(4), JDY(4), PHS(4), IOV(2), IUN(2), IUN(2), IDECF(16), IFS, NFS, FX, FY, JK, PIC, KPIC, NC OUNT, NBIN, MAXN, CTA, CTB, MX, MY, JA, JB, JC, JD, JE, JF, XF(20,3), YMMON/C JACK/NSY(20,30), NMS(20), NDR(20) bulletin, XM, AW1(60), BX(20), NST1(20), NST2(20), INER(20), NSX(20,30), AW1(60)

RUTHERFORD LABORATORY

Dr R W G Hunt of Kodak Ltd is the speaker in the next lecture in this series, which commences at 15 15 hours on Thursday, 14 December in the Lecture Theatre.

The title of his talk is "The Strange Journey from Retina to Brain".

The basis of colour vision is described in terms of current physiological knowledge. Various subjective effects of importance in colour television, including trichromacy, luminosity, reduced bandwidth for colour - difference signals, and adaptation effects, are explained by postulating the derivation in the retina itself of a luminosity and two colour - difference signals. Subsequent effects in the optic nerve and brain are briefly considered as 'searching - for - meaning' activities.

The lecture will be illustrated by practical demonstrations.

NIMROD XMAS SHUTDOWN

NIMROD will be closed down from 22 - 27 December.

FILM BADGE NOTICE

It is Period I3. Colour Strip - YELLOW for  $\beta\gamma$  films and neutron packs. Please check that you are wearing the correct dosimeter and that all old ones are returned.

Next film change - I January 1973

AFRE BUS DEPARTURE BAYS

The following notice appeared in the supplement to Harwell Bulletin No 72/36:-

On Monday, II December, northbound departure bays will be renumbered to bring most buses nearer the Restaurant Gate. Route numbers will not be changed, nor will the positions of southbound buses.

FOUND

The following have been found in Building R20:-

10p piece (Kitchen)

5p piece (under Kit-Kat machine)

Brown suede/leather glove (left hand) - probably man's driving glove.

These items are now in possession of C J E McDonald, Room 62, R20.

MISSING EQUIPMENT

The following items of equipment have been reported missing:-

Two continuity testers, manufactured by S B Davenport. These are battery powered instruments housed in green cases, 13  $\times$  6  $\times$  2 cm.

Anyone with information on the present whereabouts of these items is asked to contact J G Watson, Room 1.33, Building RI, Ext 228.

UNDELIVERABLE MAIL

Technical Report No 18/72, October 1972, "On the absence of radiative correlations to the anomaly of the axial current", by J H Lowenstein and B Schroer.

This report can be collected from the Editor.

ABANDONED? OR FORGOTTEN?

A gents bike, No RL 397 has been loitering outside Building R36 for about three weeks. Would the owner please capture same and remove to its normal parking lot.

OVERSEAS VISITS

Mr P Mackay and Mr J F Connolly, to CERN, 6 - 15 and 10 - 17 December respectively, for commissioning of equipment on  $\bar{P}$  - P experiment.

news continued on page 4

### INTERNAL EVENTS

NIMROD LECTURE SERIES Monday || December ||1.30 |Lecture Theatre Resonance Couplings and the Quark Model
Professor G Moorhouse/Glasgow University

METRICATION TRAINING Monday || December | 15.30 | Lecture Theatre The sixth showing of the introductory session on metrication Full details were given in Bulletin No 37

SPECIAL LECTURES
12 13 & 15 December
11.00
Conference Room Building RI

Gauge Theories of the Weak and Electromagnetic Interactions (A series of three introductory lectures for non-experts in the field)

G G Ross

FILM SHOW

There is no film show this week owing to SRC Senior & Junior Induction Courses which are being held in the Lecture Theatre

RUTHERFORD LABORATORY LECTURE Thursday 14 December 15.15 Lecture Theatre

The Strange Journey from Retina to Brain (see page 1 for details)

Dr R W G Hunt/Kodak Ltd

SEMINAR IN COMPUTING Friday 15 December II.00 Conference Room Building RI2

Some Programs at the RHEL Film Analysis Group

J Barlow and B Franek

The RHEL Film Analysis Group has developed some programs which will be of interest to other users. They include a version of SUMX (a general statistics plotting program) which provides output for a Visual Display, and an Automatic Job Submission Program (which greatly simplifies Job submission where multiple runs are required of the same program but with different tape/disk requirements). The Group Program Library system will also be discussed, this is a frame work for developing, storing, documenting and maintaining commonly used programs intended-for general use.

NIMROD LECTURE SERIES Monday 18 December 11.30 Lecture Theatre Recent Results on  $\pi^+ p \! + \! \Delta^{++} \pi^0$ , pp in the Resonance Region

Professor Anne Kernan (CERN)

### NIMROD SCHEDULE

CYCLE 16 12 12 72 - 2 1 73		MACHINE PHYSICS	HIGH ENERGY PHYSICS
Team	Beam	Experiment	State
Cambridge University/ RHEL	K13C	Associated Production Cross Sections	Data
Imperial College/ Southampton Univ	π7	Studies of $\eta$ $\omega$ and A2	Data
Bristol University/ Southampton University/ RHEL	K15	$\pi^{\pm}$ Differential Cross-Sections .	Setting up

## EXTERNAL EVENTS

PHYSICS & GEOPHYSICS COLLOQUIUM

Monday || December

17.00

University of Bristol

Fundamental Constants and X-Ray Interferometry

Dr M Hart/University of Bristol

PHYSICS COLLOQUIUM Monday || December | 17.00 University of Reading

Radiation Damage in Gallium Arsonide

Mr R Brunwin

BRITISH COMPUTER SOCIETY -READING BRANCH MEETING Tuesday 12 December 20.00 University of Reading Health Computer Systems in West Sussex
Mr C K Davie

ELEMENTARY PARTICLE THEORY SEMINAR Friday 15 December, 14.15 Nuclear Physics Lab. Oxford Some Results of a Relative Quark Model

Dr N Byers/Oxford

EVENT AT AERE

THEORETICAL PHYSICS SEMINAR Tuesday 12 December 14.00 Conference Room, Building 8.9 Microscopic Concepts in Plasticity Theory

Professor Craig Hartley/Imperial College & University of Florida

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MONTH COLUMN TO THE REPORT OF THE PERSON OF

Deadline for Insertions GENERAL & SOCIAL NEWS

INTERNAL & EXTERNAL EVENTS

Tuesday 1600

Wednesday 1200

Abingdon 1900 Ext 484

OVERSEAS VISITS

Dr B H Mearden and Mr P Hey, to Grenoble France, II - 13 December, for discussions with ILL staff.

Mr B McCartney, to CERN, II - 17 December, to work on experiment R204.

## SOCIAL NEWS

# HORTICULTURAL SOCIETY EVENING LECTURE

Continuing the policy of obtaining top class speakers we are very pleased to welcome back an old friend, Mr K Burras N D H, Superintendent of the Oxford Botanic Gardens who will give an illustrated talk on "An East African Plant Safari". The lecture commences at 19.30 on Tuesday 12 December in the Laboratory Lecture Theatre. Tickets at 15p which includes coffee and biscuits are obtainable from Mrs V Goodwin, RI, Mr R Brabben R2O, or the Editor.

We hope to have the continuing support of our visiting friends and more of our own members.

#### ABINGDON CHRISTMAS FESTIVAL

Bring your family to the Market Place at 18.45 on Thursday, 14 December to see the whole Xmas Story enacted by pupils of Fitzharry's, and to join in your favourite carols. The singing will be led by the Abingdon Borough Band. If wet - in the Abbey Hall.

#### MODEL RAILWAY ENTHUSIASTS

A number of enthusiasts are planning a get together to assess the possibility of forming a model railway club. Anyone interested in model railways Z, N, TT, HO, 009, OO, EM, EEM, and O gauges is asked to contact Ray Roberts Ext 254.

## RECREATIONAL SOCIETY DANCE

End of the year dance on Friday 29 December in the restaurant R22. Dancing from 20.00 to 01.00 to the Cox-Harris Combo. Bar extension and Buffet. Tickets now available from Mrs T Batchellier R34, J Rice R2, F Cook R9, Mrs V Goodwin and Mrs M Stoker RI, price 65p each.

#### RECORD SOCIETY

Apologies from the Society for the cancellation of the record concert on Tuesday last. However the programme announced for that day will be presented next Tuesday at 13.00 (please note change of time) in the Lecture Theatre.

New World Symphony (No 9 in E Minor) - Zurich Tinhalle Orchestra with Josef Krips.

### FOLK CLUB

Friday 8 December at 20.00 in the Coffee Lounge R22.

Stanley and Knowles the best in traditional music.

Friday 15 December at 20.00 in the Coffee Lounge R22

Rosie Hardman - second appearance, if you've seen her before we are sure you will come again. If not, come along for a very enjoyable evening.

#### CHRISTIAN FELLOWSHIP

Please note the following changes to last weeks announcement:-

Friday I5 December. All welcome to join in a half-hour of Fellowship at 12.30 in the Conference Room, Building RI2.

Rutherford Laboratory Carol Service. Everyone welcome to come along to the Laboratory's Annual Carol Service at 12.45 on Tuesday 19 December in the Lecture Theatre.

The Carol Service will be led by the Rev G Crees of Chilton Parish Church.