

November 13-20

NATIONAL SAVING CERTIFICATES - WEEKLY CYCLE ENDING 11/11/72 Certificates can be collected from the Cash Office R20 from 13 November onwards. New members wishing to join the scheme can obtain enrolment forms from the Cash Office. Forms must be returned not later than 15 November 1972.

METRICATION TRAINING

The next metrication training session will be held on Wednesday 15 November at 15.30 hours in the Lecture Theatre. For further details see Bulletin 37 (6 - 13 November 1972).

MISSING EQUIPMENT

Adaptor Type 81 for 585A Oscilloscope Serial No 7111. Anyone knowing the whereabouts of this item please inform Dr T G Walker Ext 6256.

EXHIBITION

Public Works Congress & Exhibition will be held at Olympia 13 - 18 November 1972.

CONSERVATION SOCIETY

Those who feel that the issues raised in Professor Freeman's Rutherford Laboratory Lecture on "Technical Progress and Limits to Growth" are both interesting and important might consider joining the Conservation Society. The Oxford branch is particularly vigorous and holds regular lectures and discussion meetings on environmental topics. There are a number of local projects under way for enthusiasts who feel that they would like to do

something.

More details will be displayed on the Restaurant notice board, or can be obtained from .'

Dr J D Lawson Ext 6128.

FILM BADGE NOTICE

It is Period I2. Colour Strip - BROWN for βγ films and fast neutron packs. Please check you are wearing the correct dosimeter and that all old ones are returned.

OVERSEAS VISIT

Mr M J Hotchkiss to CERN 13 - 17 November, to work on S120 Experiment.

RUTHERFORD LABORATORY VISITORS

Apprentices and Laboratory Trainees from AERE pm 15 & 16 November. Staff and Pupils from Burnham Grammar School pm 18 November.

INTERNAL EVENTS

NIMROD LECTURE SERIES Monday 13 November 11.30 Lecture Theatre

Recent Developments in X-Ray Astronomy

Dr K Pounds/Leicester University

300 GEV SEMINAR Monday 13 November 14.30 Conference Room, Building RI Physics with High Energy Muons: A Discussion of the Programme at NAL and Suggestions for the $300~{\rm GeV}$ Accelerator.

Dr W S C Williams/Oxford

HEP DISCUSSION GROUP Wednesday 15 November 11.00 Conference Room, Building RI Dr K Barnham/Imperial College

FILM SHOW Wednesday 15 November 13.15 Thursday 16 November 12.40 Lecture Theatre

"Winter In Japan", a 17 minute colour film.

At least one film about Japan during the 'season' is a must. This particular film, which is a new release, gives an insight into their way of life and shows the beauty of the country in the winter season.

METRICATION TRAINING Wednesday 15 November 15.30 Lecture Theatre

Last week's Bulletin gave details of this which is the second repeat.

SEMINAR IN COMPUTING Friday 17 November 11.00 Lecture Theatre

The IBM Virtual Storage Operating System

R A Steggle/London Field Systems Group, IBM (UK) Ltd

IBM have recently announced the Virtual Storage (VS) Operating System for use on the new virtual memory machines. This talk will describe in general terms the implementation on VS on IBM 370's and the advantages of such systems. Factors $\frac{1}{2}$ affecting performance will also be discussed. (Please note change of venue for this seminar)

NIMROD LECTURE SERIES Monday 20 November 11.30 Lecture Theatre

Hadron Production in Deep Inelastic Scattering

Dr W T Toner/RHEL

NIMROD SCHEDULE

CYCLE 14 31 10 72 -	21 11 72	MACHINE PHYSICS	HIGH ENERGY	PHYSICS
Team	Beam	Experiment		State
RHEL/UCL/Berkeley/ Torino	К9	4 GeV/c π^{+} p interactions in track sensitive target		Data
Bristol Univ/ Southampton Univ/RHEL	KI5 π8	$\mathrm{K}^{^{\mathrm{t}}}\mathrm{p}$ and $\mathrm{\pi}^{^{\mathrm{t}}}\mathrm{p}$ Differential Cross-Sections Tests for L/I 63	~	Bata Setting up
Churchill Hospital Oxford/RHEL	πΙΙ	Radiobiological Experiment		Data
Glasgow Univ/RHEL	π9 P71	Polarisation Measurements in $\pi^- p$ Charge Exchange Tests on Gas Cerenkov for RHEL/ISR Experiment		Setting up
Imperial College/ Southampton Univ	π7	Studies of η ω and A2		Data

EXTERNAL EVENTS

PHYSICS & GEOPHYSICS COLLOQUIUM Monday 13 November

17.00 University of Bristol "The character and aims of research work in the Electronics Industry and proposals for interaction with Universities". (A personal view).

Professor K Hoselitz/Director of Mullard Research Laboratories, Redhill

THEORETICAL PHYSICS SEMINAR Monday 13 November

16.15 Queen Mary College, London "Unified theory of weak and Electromagnetic Interactions"

Dr J C Taylor/Oxford

NUCLEAR STRUCTURE SEMINAR

Monday 13 November 14.30 Nuclear Physics Lab, Oxford "Hyperfine Interactions in Highly Ionized Atoms"

Dr W L Randolph/Nuc Phys Lab

COLLOQUIUM Monday 13 November 17.00 University of Reading "Some new approaches to Atomic Structure Calculations"

Professor M J Seaton/Univ College, London

BRITISH COMPUTER SOCIETY Tuesday 14 November 19.45 for 20.00 Old Mill, Aldermaston Social evening with buffet supper and wine, at £1 per head. Wives/husbands/friends invited. Attendance limited to 90. Tickets on sale from the committee. Talk by Mr C T Ross, AIB, FBCS on "Making and Losing Money with Computers".

COMPUTER APPLICATION GROUP
Tuesday 14 November
16.30
Polytechnic of the South Bank,

"The General Decision Model" (an ambitious attempt to use computers to help solve problems in the design of large buildings).

Dr S Berger

DARESBURY LECTURE SERIES Tuesday 14 November 14.00 Daresbury NP Laboratory

London

"Gravitational Radiation Experiments"

R Drover/Glasgow

INSTITUTION OF ELECTRICAL ENGINEERS OXFORD DISTRICT MEETING Wednesday 15 November SEB Offices, Yarnton, Oxford "Power in the Year 2000"

T E Allibone CBE DSc D Eng PhD

APPLIED MATHEMATICS SEMINAR Thursday 16 November 14.30

Royal Holloway College

"Numerical methods for the solution of the Coupled Integro-Differential Equations of Electro-Atom Collision Theory"

Professor M J Seaton/Univ College, London

NUCLEAR PHYSICS DIVISION COLLOQUIUM Thursday 16 November

15.30 Conference Room, H8, AERE "Nuclear Systematics"

Dr S Pearlstein/Brookhaven

RUTHERFORD LABORATORY BULLETIN

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Deadline for Insertions GENERAL & SOCIAL NEWS

INTERNAL & EXTERNAL EVENTS

Chilton Didcot Berks Abingdon 1900 Ext 484

Tuesday 1600

Wednesday 1200

THEORETICAL PHYSICS SEMINAR

Thursday 16 November 16.15 Clarendon Lab, Oxford "Old & New Problems in Glass"

Professor P W Anderson/Cambridge and Bell Laboratory

COLLOQUIUM

Friday 17 November Clarendon Lab, Oxford "Recent studies in interstellar Molecules"

Dr R D Davies/Jodrell Bank

PHYSICS & GEOPHYSICS

COLLOQUIUM

Monday 20 November 17.00 University of Bristol "Planetary Magnetic Fields"

Dr R Hide/Met Office, Bracknell

THEORETICAL PHYSICS SEMINAR

Monday 20 November 15.45

Queen Mary College, London

"Spin Waves in Heisenberg Magnets"

Professor A Brooks/Pennsylvania & Oxford

NUCLEAR STRUCTURE SEMINAR

Monday 20 November

14.30

Nuclear Phys Lab, Oxford

"Three Particle States of 19F"

Dr W O Rogers/Nuc Phys Lab

SOCIAL NEWS

HORTICULTURAL SOCIETY - EVENING LECTURE

Once again we have a first class speaker for the evening lecture on Tuesday 14 November in the Lecture Theatre at 19.30.

Mr J Elliott from the Broadwell Nurseries, Moreton-on-the-Marsh will be talking about "Alpines without a Rock Garden". Mr Elliott is well known in this field as a broadcaster and should be worth hearing.

Tickets at 15p can be obtained from any committee member or from the Editor on Monday 13 November of Tuesday 14 November.

FOLK CLUB

The next meeting at 8 pm on Friday IO November in the Restaurant Coffee Lounge features

Brian Brocklehurst and Hadleigh Kay.

Brian, affectionately known as Broc, is one of Britain's leading double bass players. He has appeared in Country meets Folk; Folk on Sunday and now has his own programme on Radio London.

Hadleigh is a songwriter of note, plays guitar and sings a lot of his own songs.

RECORD SOCIETY

· Tuesday 14 November, 12.40 Lecture Theatre

Brahms Violin Concerto - Yehudi Menuhin with the Berlin Philharmonic

A very well known work performed in this stereo recording by a master and the famous Berlin Philharmonic: conducted by Rudolfe Kempe. There is little more to say except come along for a while on Tuesday.

CHRISTIAN FELLOWSHIP

Friday 17 November. Meyrick Wyard will be leading the meeting with a subject "Sin is your four letter word". This is the second meeting in a series entitled "The Five Steps to Heaven". It sounds intriguing. Why not come along at 12.30 pm in the Conference Room, RI2.