



Rutherford
Laboratory

R(12), NDT(60,3), ISW(3500), ANGLE(60), YINT(60), DUMMY(4),
[6,3], NACHT(48), XCEN(12), YCFN(12), PAR(12), YCFN(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), TR(100,2), IDX(
DY(100,2), JDX(4), JDY(4), IHS(4), IOV(2), IUN(2), IDE
CF(16), IFS, NFS, FX, FY, JK, PIC, KPIC, NCOUNT, NBIN, MA, V, AXUN
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), NFR(20), A(16), YA
(20), BX(20), NST1(20), NST2(20), INER(16), AT(60)
11-18 June 1973
bulletin 21

SCIENTIFIC AND CHRISTIAN HUMANISM

As reported in Bulletin No 13/73, the Modern Churchman's Union are holding an Annual Conference at Culham College from 23-27 July 1973. The subject is to be Scientific and Christian Humanism and speakers include Professors Bondi, Longuet-Higgins, Thring and Cherbonnier.

Further information, booking forms and programmes may be obtained from Leslie Smith, 6 Norman Avenue, Abingdon, or from the Honorary Secretary, Caynham, Ludlow, Salop, SY8 3BN.

CRYOGENICS AND ITS APPLICATIONS

The University of Southampton has announced details of postgraduate courses in Cryogenics and its Applications, for 1973/74.

Cryogenics is the technology, consisting of partly engineering and partly low temperature physics, which is concerned with the production and application of low temperatures and low temperature processes below about 200K.

Owing to the lack of training facilities in this field, the University of Southampton, after considerable discussion with industrial and government establishments concerned with cryogenics, and with the Science Research Council, commenced postgraduate courses in October 1966, to meet this demand.

For the year 1973/74, two courses have been announced; details as follows:-

Short Course (3 months) in LNG (liquid natural gas) Technology, commencing 1 October 1973. This will provide intensive training at postgraduate level in the techniques of cryogenic engineering in relation to the production, transportation, handling and application of liquefied natural gases, LNG.

M.Sc. Course in Cryogenics and its Applications, commencing in October 1973. The course, may be taken either as a continuous twelve months course or as a 'serial' course of three parts extending over thirty-six months. This course is recognised by the Science Research Council for the award of Advanced Course Studentships.

Further information on both the above courses, one-day seminars in cryogenics, and research in cryogenics may be obtained from the Editor.

FILM BADGE NOTICE

It is Period 6. Colour Strip - BLUE for $\beta\gamma$ films and neutron packs. Please check that you are wearing the correct dosimeters and that all old ones are returned. Next film badge change - Monday 18 June.

FOUND

A black umbrella, extending type, with leather handle was left in the Restaurant before the Spring holiday. Owner can claim from the Restaurant Manager.

MISSING EQUIPMENT

The following item of equipment has been reported missing from Labs 7/11, Building R1.

Blue Electric Fan, Serial No. AERE 19416

Anyone with information on the present whereabouts of this item is asked to contact Dr R A Rosner, Room G 52, Building R1, Ext 6127.

An extension lead, SRC No 14/5160, has been removed from the Lecture Theatre. Would the present 'user' please return it to the Editor.

UNDELIVERABLE MAIL

A report on 'High Energy pp Data and the Reggeon Theory of Diffraction Scattering' from J.N. Ng, Dept of Physics, University of Washington addressed to Dr A N Diddens, Dept of Physics, Rutherford Laboratory, Oxford University, can be collected from the Editor.

An air mail letter addressed to Miss Catherine Taylor, Rutherford High Energy Laboratory, SHILTON, from P A Husain, International Trade Centre, Geneva may also be collected from the Editor.

INTERNAL EVENTS

NIMROD LECTURE SERIES

Monday 11 June
11.30
Lecture Theatre

Symmetry Schemes vs the Rosenfeld Tables: Some Open Experimental Questions

Dr D Faiman/Cern

PROPOSAL TALKS

Wednesday 13 June
11.00
Lecture Theatre

Proposal No 128: Experiments on Narrow Bosons - χ^0 (958), S^* and Cross Section Measurements. Imperial College London/Southampton University

The talk will be given by Dr D M Binnie of Imperial College

Proposal No 127: A Proposal to Study High Energy π^+K^+ and K^- Interactions in the NAL 15 foot Hydrogen Bubble Chamber. Cambridge University Bubble Chamber Group

The talk will be given by Dr W Neal of Cambridge University.

SEMINAR IN COMPUTING

Friday 15 June
11.00
Conference Room, Building R12

The π^9 Experiment and its Data Processing Requirements

H Renshall

The description of the π^9 experiment will be given with the emphasis on its data processing and analysis requirements.

NIMROD LECTURE SERIES

Monday 18 June
11.30
Lecture Theatre

What Have we Learned from a K^+p Experiment Done Between 1.2 and 1.7 GeV/c Incident Momentum

Dr L Montanet/Cern

NIMROD SCHEDULES

CYCLE 5 5 6 73 - 26 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

APPLIED PHYSICS COLLOQUIUM
Wednesday 13 June
16.30
University of Reading

Audio Equipment Design
J L Linsley Hood/Wireless World

**LOW TEMPERATURE AND SOLID STATE
PHYSICS SEMINAR**
Thursday 14 June
14.30
Clarendon Lab, Oxford

Magnetic Crystals with Weak Interactions
Professor W P Wolf/Yale University

THEORETICAL ASTROPHYSICS SEMINAR
Thursday 14 June
14.30
Dept of Astrophysics, Oxford

Negative Viscosity and the Origin of Spiral Arms
Dr V Icke/Sussex

THEORETICAL PHYSICS SEMINAR
Thursday 14 June
16.15
Clarendon Lab, Oxford

Some Less-Known Excitations in Liquid Helium
Dr Woods Halley

COLLOQUIUM
Friday 15 June
16.15
Clarendon Lab, Oxford

Bricks with Straw: Development and Research on Some Composite Materials
Dr H M Rosenberg/Clarendon Lab

EVENTS AT AERE

THEORETICAL PHYSICS SEMINAR
Tuesday 12 June
14.00
Conference Room, Building 8.9

A Model Approach for Glasses
Dr R J Bell/National Physical Laboratory

NUCLEAR PHYSICS COLLOQUIUM
Friday 15 June
14.30
Room 3, Training Centre

Primary and Secondary Nuclei in Cosmic Rays
Mr J A Holmes/Dept of Astrophysics, Oxford

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Editor: H F NORRIS
Room 42 Building R20
Rutherford Laboratory
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Abingdon 1900 Ext 484

**Deadline
for
Insertions**

GENERAL & SOCIAL NEWS
Tuesday 1600

INTERNAL & EXTERNAL EVENTS
Wednesday 1200

OVERSEAS VISITS

Dr Hong Mo Chan, to the USA, 10 - 16 June, to speak at the Gordon Research Conference on Multiparticle Production Processes.

The Director, to CERN, 14 - 15 June, to attend meeting of ECFA Working Party.

SOCIAL NEWS

SPORTS DAY 1973

This years Sports Day will be on FRIDAY 29 JUNE at the Civil Service Sports Ground, Chiswick, London.

It is hoped that as many players as possible will participate this year in the various sports.

Below is a list of sports, if you are interested please contact your representative shown below:

Football (Six-a-side)	- P Howard	Extension 6115
Cricket) Chess)	- P Craske	Extension 232
Bowls	- N Ferguson	Extension 438
Netball	- Mrs M Stoker	Extension 270
Tennis (Mens and Mixed Doubles)	- P Craske	Extension 232

A decision will be taken later whether Table Tennis will take place. Helpers are also required including one umpire for cricket and scorers for tennis. Names must be in by 18 June at the latest. Don't forget your support is needed to make it a success.

CHRISTIAN FELLOWSHIP

Friday 15 June, Conference Room, Building R12

Tim Packer of Building R2 will be leading a Bible Study on the book of Jude. All are welcome to come along and the meeting commences at 12.30.