



Rutherford
Laboratory

R(12), NDT(60,3), ISW(3500), ANGLE(60), YINT(60), DUMMY(84),
(6,3), NACHS(8), YCFN(12), ICHAF(12), CHAF(12),
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), IB(100,2), I
DY(100,2), JDX(4), JDY(4), IHS(4), IOV(2), IUN(2), IDEL(2), IDE
CF(16), IFS, NFS, FX, FY, JK, PIC, KPIC, NCOUNT, NBIN, MAXOV, YIN
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), NSR(20), NSC(20), A
(20), BX(20), NST1(20), NST2(20), INER(20), NSX(20,30), AWT(60)

31 January - 7 February 1972

bulletin 5

SUGGESTION AWARDS SCHEME

At the meeting of the Suggestions Awards Committee on Tuesday 18 January 1972, five suggestions were considered and the following awards were made:-

R G Spiteri	Eng R18	£15.00
G Jones	Eng R18	£ 1.50

RESTAURANT NOTICE

Breakfast service will be resumed on Tuesday 1 February.

NIMROD SHUTDOWN ENDS

During the past two months the Nimrod area has been the centre of a great deal of activity. A general outline of the programme to be carried out in this period was reported in Bulletin No 1/72. From 1 February, Nimrod will be brought back into full operation again, the first cycle being concerned with machine physics. The high energy physics programme is due to start later in the month and full details will be given in the appropriate bulletin.

NATIONAL SAVINGS CERTIFICATES

Monthly Cycle Ending 31 January - certificates can be collected from the Cash Office, R20, from 1 February onwards.

Weekly Cycle Ending 4 February - certificates can be collected from the Cash Office, R20, from 7 February onwards.

New members wishing to join the scheme can obtain enrolment forms from the Cash Office.

FILM BADGE NOTICE

It is Period 2. Colour Strip - BROWN for 8y films and fast neutron packs. Please check that you are wearing the correct dosimeters and that all old ones are returned.

VISITORS

Twelve members of the Roke Manor Technical Society, Plessey Co Ltd Romsey, will visit the Laboratory on Saturday 29 January.

Thirty Physics Students from Chelsea College will visit the Laboratory on Saturday 5 February.

OVERSEAS VISITS

Dr G H Stafford and Mr A P Banford to Geneva, 30 - 31 January to attend meeting of European Physical Society Conference Committee.

Dr Thomas T Tso to CERN 30 January - 4 February to continue experiments at CERN.

Dr D Morgan to Europe 31 January - 11 February to give lecture and have discussions at Munich returning via CERN for further discussions.

Dr C M Fisher and Dr R W Newport to DESY Hamburg 1 - 2 February to attend meeting of ECFA 300 GeV Study Group on New Visual Detectors.

Dr G Manning to CERN, 1 - 8 February to work with ISR experiment.

Mr M J Cawthraw to Julich Germany 2 - 4 February to attend CAMAC Dataway working group meeting.

INTERNAL EVENTS

NIMROD LECTURE SERIES

Monday 31 January
11.30
Lecture Theatre

Analysis of the 3π System of the Reaction $\pi^- p \rightarrow 2\pi^- \pi^+ p$ at Serpukhov

Dr R Klanner/CERN

PROPOSAL LECTURES

Monday 31 January
14.15 and 15.15
Lecture Theatre

No 104:- "A Proposal for Neutron Experiments at SIN, Zurich".
QMC/BEDFORD COLLEGE/SURREY U/AERE

The lecture will be given by *Dr J A Edgington of Queen Mary College*

No 105:- "A Proposal to Measure Differential Cross-Sections for $\pi^- p$ Elastic Scattering in the Momentum Range 0.6 - 2.0 GeV/c".
BRISTOL U/SOUTHAMPTON U/RUTHERFORD LABORATORY

The lecture will be given by *Dr V J Smith of Bristol University*

TRADE EXHIBITION

Monday 31 January
Afternoon only
Car Park Building R25

The Edwards Vacuum Components caravan will present a demonstration of new additions to the 70 Series range of instruments. Of particular interest are the following - new EDM2 Rotary Vane Pumps with an air cooled E02 Diffusion Pump complete with manifold; new controllers and combined Pirani/switch unit; new clean stainless steel bellows and pipeline valves, 10-50 mm; new and existing oils and greases, plus leak sealant and a range coupling components, rotary shaft seals and a selection of vacuum brazed stainless steel ultra high vacuum components. Mr Alan Rothwell will be in attendance.

HEP DISCUSSION GROUP

Wednesday 2 February
11.00
Lecture Theatre

Inclusive Reactions for Beginners - continuation of previous lectures

Chan Hong Mo/RHEL

FILM SHOW

Wednesday 2 February
13.15
Thursday 3 February
12.40
Lecture Theatre

Tale of a Tower - a 22 minute colour film

In March 1969 the I T A tubular aerial mast at Emley Moor in Yorkshire collapsed under the weight of winter ice. This film describes the building of its successor - a concrete tower with arials rising to 1080ft which is the highest concrete structure in the UK and the third highest of its type in Europe. Animation is used to explain why height is so important to television transmission. The day to day work of a transmitter and the function of the programme company is covered. The film includes some spectacular aerial photography.

NIMROD LECTURE SERIES

Monday 7 February
11.30
Lecture Theatre

How one can look at data without being led by a model

Dr W Kittel/CERN

EXTERNAL EVENT

NUCLEAR PHYSICS SEMINAR

Monday 31 January
14.30
Nuclear Physics Lab Oxford

Title to be announced

Dr W G Davies/Chalk River Laboratory

THEORETICAL PHYSICS SEMINAR

Monday 31 January
16.15
Queen Mary College

Deep Inelastic Scattering

Professor J C Polkinghorne/Cambridge

PHYSICS COLLOQUIUM

Monday 31 January
17.00
University of Reading

Some Applications of Lasers to Physics

Professor D J Bradley/Queens University, Belfast

PHYSICS & GEOPHYSICS COLLOQUIUM

Monday 31 January
17.00
University of Bristol

Studies of Superconducting Materials at Oak Ridge National Laboratory

Dr C Koch/Oak Ridge National Laboratory, Tennessee: visiting AERE Harwell

ELEMENTARY PARTICLE PHYSICS SEMINAR

Tuesday 1 February
14.30
Nuclear Physics Lab Oxford

The Colliding Proton Beams at CERN after one year of operation

Dr G Cocconi/CERN

DARESBUURY LECTURE SERIES

Tuesday 1 February
14.30
Daresbury Nuclear Physics Lab

Experiments in Neutral Pion Photoproduction Measuring Recoil Nucleon Polarisation

M N Prentice/Liverpool University

THEORETICAL PHYSICS SEMINAR

Wednesday 2 February
14.30
University of Manchester

Heavy Ion Reactions - the Problems they Present to Astrophysics and to Nuclear Physics

Dr E Vogt/University of British Columbia and Oxford

APPLIED PHYSICAL SCIENCES

Wednesday 2 February
16.30
University of Reading Bld APS1

Hovercraft - a Survey

Mr G Jeffery/Dept of Trade and Industry

EVENTS AT ATLAS AND AERE

ATLAS LABORATORY TALK

Monday 31 January
14.00
Conference Room Atlas Lab

APPLE and MALUS on Star

Mike Marcotty/General Motors Research Division

(Please advise Mrs C Davis Abingdon 1900 Ext 479, of intention to attend)

THEORETICAL PHYSICS SEMINAR

Tuesday 1 February
14.00
Conference Room Building 8.9

Dynamics of Rotating Fluids

Mr R Hide/The Meteorological Office Bracknell

RUTHERFORD LABORATORY BULLETIN

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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

pmr

SOCIAL NEWS

THE MANY THAT GOT AWAY - OR A VERY FISHY STORY

The result of the fishing match between a Laboratory team and British Rail (Didcot Depot) held on Saturday 22 January was a convincing win for British Rail. Their total catch weighed 12 lb, 3 oz against the Laboratory's teams 3lb 4 oz. The Rutherford Laboratory team were well beaten and it is said that one of the deciding factors being knowledge of the local British Rail Water. (A very fishy tale indeed - Ed). However there is always another day and it is nice to record that Len Willson, the Rutherford Champion, came overall fourth in the individual class.

LABORATORY SOCCER NEWS

The Rutherford Six-a-side Football League Cup for 1971 will be presented to the Nimrod team who were last seasons Champions on Friday 4 February. Immediately afterwards the Champions will play a representative side chosen from the rest of the league. This will be the last time that the Nimrod team will play together after many years of success. The kick-off is at 12.43 pm and the teams will line up as follows:-

The Champions 1971	V	Rest of League
Howard Samuels (Goal)		Ray Smith (Goal - Transport)
Harry Jarvis (Capt)		Gordon Dawson (Atlas)
Bob McClure		John Whittaker (Hall 3)
George Pullinger		John Holiday (R25)
Mic Wise		Trevor Godfrey (R9)
John Mackerness		Jim Taylor (Capt - R18)
Substitute - D Davies		Substitute - Phil Lewis (D O)

Referee - Brian Prior

1972 Season. The Rutherford SEVEN-A-SIDE Lunch Time Soccer League starts again in March. (For the benefit of those extremely observant readers who are reaching out for the telephone - it will be seven-a-side and not six as in previous years. One gathers that this is something to do with the passing years although it is understood that bath chairs will not be permitted - Ed). Any player wishing to take part in this competition should contact Mr G Howard Ext 6115 who will make every effort to fit him in to one of the eight teams taking part. However if enough applicants come forward it may be possible to form another team.

RECREATIONAL SOCIETY DANCE

The next dance will be held on Friday 18 February in the Restaurant. Dancing to the Cox-Harris Combo, 8 - 1, with a fully licensed bar plus chicken supper, all for 65p. PLEASE NOTE:- There is a limit to the number of people we can get into the restaurant for a dance, so if you want a ticket, you will have to move very quickly; the tickets are usually sold out within a few days. Tickets will be on sale Monday 31 January from the following:- Mrs V Goodwin (Building R1), Mrs T Batchellier (Building R34), Mrs M Stoker (Building R20), Mr P Craske (Building R2) and Mr J Hoskins (Building R58).

ANYONE INTERESTED IN FOLK MUSIC?

Anyone with an interest in folk music, traditional or contemporary is asked to contact Stephanie Hannan (Restaurant Manageress). If there is sufficient interest she would like to discuss the possibility of starting a 'local' Folk Club.

CHRISTIAN FELLOWSHIP

Ray Powell will be leading our monthly prayer meeting at 12.30 pm on Friday 4 February in the Conference Room, Building R12. Everyone welcome.

RECORD SOCIETY

The Record Society concert has had to be postponed until Friday 4 February 12.40 pm in the Lecture Theatre.

Hoffnung at the Oxford Union - featuring the famous Bricklayer's Story
"Respected Sir".

Gerald Hoffnung, graphic artist, serious musician, a musical parodist, a raconteur, an hilarious broadcaster, a Fellow of the Society of Industrial Artists, a painter, a prison visitor etc., born 1925 died 1959. A unique personality who loved to make people laugh. If you have never heard this record come along and have a good laugh; if you have - still come.