



Rutherford
Laboratory

COMMON/CSCAL/IBM ,NERR,NCH,NGAP,ISCAN,NBR,NGR,NSCAN1,NRD
1IYSEL,IYSEU,IYMAX,NTRACK,NSCAN,NES,NFATL,MAXTR,
2NBEGIN,NTK,NTRY,NMISS,NSSR,NFIC,MAXMIM,NFIRST,N
COMMON/CFID/MFX(20,3),MEY(20,3),NFDX(10,3),NFX(3
QTAB(2,20,3),NX(100,4),NY(100,4),XN(2),YN(8),IB
R IDY(100,2),JDX(4),JDY(4),IHS(4),ICV
S NCF(16),IFS,NFS,FX,FY,JK,PIC,KPIC,NCOU
T MAXN,CTA,CTB,MX,MY,JA
DIMENSION NCTR(144),NG

bulletin 23
10-24 November 1975



VISIT OF ENGINEERING BOARD ON 30 OCTOBER

* * *

HEALTH AND SAFETY AT WORK ACT-"IT SHALL BE THE DUTY"

When one studies the
text of this Act
there are two phrases

which impress one by their repetition, i.e. "it shall be the duty ..." and "... so far as is reasonably practicable ...". The first of these is used in the definition of the many obligations imposed on all persons at work, while the second is used to temper the obligations with common sense and perspective.

The Health and Safety Commission have taken the first of these phrases as the title of their first publicity film. "IT SHALL BE THE DUTY" is a professionally produced film which graphically presents the Act in a form which is understandable and informative. It shall be your duty (so far as is reasonably practicable) to spend 30 minutes viewing this film in the Lecture Theatre.

Dr Stafford has given permission for this very important film to be shown during working hours so that all who work in the Laboratory may see it. The times of showing, see Internal Events, have been deliberately chosen for your convenience; the 1.15 showing is particularly but not exclusively aimed at staff with a fixed (12.30 - 1.15) lunch-time. All supervisors are urged to ensure that all who work for them are enabled to see the film.

OVERSEAS VISITS

Dr A G Clark, to CERN, 8-22
November for analysis of R205
experiment.

Dr C J S Damerell, to CERN, 10-12 November, to attend
EEC Meetings & work on experiments.

Dr B H Meardon, to ILL, 11-13 November, to attend
discussion meeting.

Mr H O Normington, to CERN, 11.14 November, to discuss
dismantling etc of Omega experiment.

Dr R J Ott & Dr R M Brown, to CERN, 13-14 November,
to attend Hyperon 300 collaboration meeting.

Dr M M Curtis, to Paris, 13-15 November, to attend SEAS
Executive Board Meeting.

Mr P T M Clee & Mr R Roberts, to the U.S.A., 15-26
November, to visit various laboratories for discussions
on superconductivity.

Mr J M Dickson, to CERN, 16-19 November, for discussions
with the Health and Safety Group.

Dr M R Jane, to CERN, 5-12 & 19-26 November to
participate in experiment.

Mr E W Fitzharris, to the U.S.A., 22 November - 12
December, to participate in technical test on T.S.T.
in 12 foot bubble chamber at Argonne National Laboratory.

SALES TO EMPLOYEES

Sales of scrap metal/plastics as
set out in RLNI2/73 will be made
on 14 and 28 November.

INTERNAL EVENTS

NIMROD LECTURE SERIES

Monday 10 November
11.30
Lecture Theatre

The CERN Experimental Programme

Professor W Jentschke/Director General, Laboratory J, CERN

TRADE DEMONSTRATION

Monday 10 November
09.30-16.30
Adjacent to R20

OLTRONIX, a Division of Roberts and Brezet Ltd, Bicester will display in their mobile demonstration vehicle, a wide range of quality manufactured Power Supplies & Instrument Cases. Of special interest to Lab staff is the prototype of the new Labpac Mk IV, designed for ease of servicing. Mr Lars-Hendrick Lindstrand (European Sales Manager) & Mr Jim Wratten (UK Sales Manager) will be in attendance.

HEP SEMINAR

Wednesday, 12 November
11.00
R61 Conference Room

New Developments in the Method of Zeros

E Barrelet/Ecole Polytechnique

HEALTH AND SAFETY AT WORK FILM

At 11.15 & 13.15 on Wednesday
12 November, Friday 14 November
& Tuesday 18 November.
Lecture Theatre

It Shall Be The Duty - a 30 minute film on the Health and Safety at Work Act.

The film is being run six times at the times & dates shown. Further details are given in the General News section.

DIRECTOR'S STAFF MEETINGS

Thursday 13 November
10.30 and 1500
Lecture Theatre

A Staff Meeting will be held in the Lecture Theatre at 10.30 hours on Thursday 13 November with a repeat at 1500 hours the same day.

The Director will address the meeting. Invitations will be made by Divisions.

SEMINAR IN COMPUTING

Thursday 13 November
11.00
R61 Conference Room

Computer Installation Management Methodology & Techniques (IMMT) - P Kritzing/IC.

Few people would spend even several hundred pounds buying something not knowing whether the item is really what they need, nor whether it works effectively when they get it: or would they purchase more of the same if the initial purchase appeared to have failed to meet their requirements. Yet millions of pounds are being spent on computers. We will discuss some current issues; put forward our approach to the problems of computer performance analysis and report progress we have made towards finding solutions using as a time-base detailed information being collected on the RHEL's Central Computer System.

NIMROD LECTURE SERIES

Monday 17 November
11.30
Lecture Theatre

The Production of New Particles in a Boorish World

Dr D Sivers/RL

HEP SEMINAR

Wednesday 19 November
11.00
R61 Conference Room

Partial Wave Analysis of $\pi^+p \rightarrow \pi\pi N$

K Barnham/Imp. Coll.

HEP DATA HANDLING SECTION SEMINAR

Wednesday 19 November
13.30
R61 Conference Room

Portable Software for Small Computers - M Calderbank/Culham

The virtues of portable software are much extolled. Several methods of achieving this end will be discussed & the particular system used at Culham will be described in detail.

TRADE PRESENTATION

Friday 21 November
10.00-12.30 & 14.00-16.30
Lecture Theatre

The Norsk-Data Electronikk presentation postponed from 21 October, as detailed in Bulletin 21 will feature their Nord-10 and Nord-50 computers. The morning session will be concerned with hardware and the afternoon session on software including on-line demonstrations to Oslo. This will be their first presentation in the UK.

FILM SHOW

Friday 21 November
12.40
Lecture Theatre

The Historic Route - a colourfil film about Ethiopia's heritage of ancient monuments and the richest grouping which lies along the former trade route from Lake Tana to the Red Sea.

Work With Water - a colour film about the Hydraulics Research Station at Wallingford.

NIMROD LECTURE SERIES

Monday 24 November
11.30
Lecture Theatre

Right-Handed Currents for the Weak Interaction??

Dr R L Kingsley/RL

Trade talk followed by a question and answer session, by AEI Scientific and Granville-Phillips Co. at 14.30, in Lecture Theatre, on 19 November.

STOP PRESS

EXTERNAL EVENTS

ELEMENTARY PARTICLE PHYSICS SEMINARS/NP DEPT, OXFORD - 14-30 hrs

11 Nov: Dr W S C Williams - Round-up from the Stanford Electron/Photon Conf.- ψ /J Particles, heavy Leptons etc.
20 Nov: Dr D Sciama-Particle Creation by Black Holes.

COLLOQUIA/CLARENDON LAB - 16.15 hrs

14 Nov: Dr H M Rosenberg-Zero Gravity Physics-the Space-lab Project.
21 Nov: Prof. J L Olsen/Zurich-Recent Experiments on Flux-Flow in Superconductors.

THEORETICAL PHYSICS SEMINARS/CLARENDON LAB - 16.15 hrs

13 Nov: Prof. C Michael/Liverpool-Regge Poles & Reaction Mechanisms in High Energy Physics.
20 Nov: Dr F Close/CERN & RL-The New Particles-some Questions.

PHYSICS DEPT. COLLOQUIA/JJJ PHYS. LAB, READING U.-1700 hrs

10 Nov: Dr G V Marr-Synchrotron Radiation Work at Daresbury.
17 Nov: Prof. H Elliott/IC-Cosmic Rays & High Energy Astrophysics.

HEP SIMINARS/4th FLOOR SEMINAR ROOM, MANCHESTER U.-1600 hrs

13 Nov: G Myatt/Oxford-Recent Results in Neutrino Physics.
20 Nov: J Rande/Manchester-Inclusive Rho Production.

THEOR. PHYS. SEMINARS/MANCHESTER U. - 16.30 hrs

12 Nov: Dr G Shaw-High Energy Photo Absorption on Nuclei: Shadowing and Vector Dominance.
19 Nov: Dr P Higgs-Some New Examples of Dynamical Symmetries.

THEORETICAL SEMINAR AT QMC-16.15 hrs

10 Nov: Prof. O Penrose-Statistical Mechanics of Metastable States.

NUCLEAR PHYSICS SEMINARS/SURREY U. - 14.00 hrs

12 Nov: C J Batty/RL-Experiments with stopping Kaons & Pions.
18 Nov: J R Rook/Oxf.-Optical Potentials for ^3He and α Particle Scattering.

HEP SIMINARS/CAMBRIDGE UNIV.- 1500 hrs

13 Nov: Dr W J Zakrzewski - The Intercept of the Pomeron.
20 Nov: Dr R Kingsley/RL-Right-handed Currents for the Weak Interactions.

THEORY SEMINARS/DARESBURY LABORATORY - 1400 hrs

10 Nov: J M Irvine/Manchester - Neutron Stars.
17 Nov: R G Elliott/Oxf. - Excitations in Disordered Crystals.

DARESBURY LECTURE SERIES - 1400 hrs

11 Nov: T Quirk/Oxf.-Some Aspects of High Energy Muon Interactions at FNAL (to be confirmed).
18 Nov: P J Duke - Report on EPS Cont. on Energy & Physics.

NP DIV COLLOQUIUM/BLDG 220, AERE - 1400 hrs

13 Nov: J Middleton/Risley - Problems of Developing the SGHWR into a Commercial Reactor.

NP DIV COLLOQUIUM/CONF. RM. HANGAR 8, AERE - 1530 hrs

20 Nov: N E W Hartley and P D Goode - Report on a Recent Visit to Laboratories at CNR Bologna and Padua University.

CANADIAN ELECTRONICS SHOW, 10 - 14 November, 1000 - 1700 daily.

Canadian High Commission, Commercial House, - Grosvenor Square, London - admission free.
(details from Editor)

NIMROD SCHEDULE

CYCLE 8 17.10.75-23.10.75

MACHINE PHYSICS

HIGH ENERGY PHYSICS

| Team | Beam | Experiment | State |
|--------------------------------------|-----------------------------|---|---------------------------------|
| BRISTOL/SOTON/RL CAMB/RL | K15a $\pi 12$ | No 120: K^0 differential cross-sections No 114: $\pi^+ p \rightarrow K^0 \Lambda$ differential cross-sections and polarisation | setting up Data |
| BIRM/SURREY/RL IMP, COLL/RL RL | K17 $\pi 8a$ $\pi 11$ | No 113: Experiments with stopping Kaons No. 128: Meson production near threshold No 154: Radiobiological Experiment | Data Tests Data |
| OXF/ROME/RL RL | T1 K18 | Test beam facility S = -2 Baryon Resonances using a rapid cycling vertex detector | Tests Hall I Installation |
| QMC/RL | K20 | No 136: Polarisation in $K^+ n$ elastic & charge exchange scattering. | Hall I Installation |

FILM BADGE NOTICE Period 12 is commenced 3 Nov for by films and neutron packs.
Colour Strip - BLUE. Please check that you are wearing the correct dosimeter and that all old ones are returned.
Six monthly TLD change for people with surnames commencing S, T, U & V.

NATIONAL SAVINGS CERTIFICATES Monthly cycle ending 31.10.75
Certificates can now be collected from the Cash Office R20. New members wishing to join the scheme can obtain enrolment forms from the Cash Office.

1975 ANGLING CHAMPIONSHIP This years competition took place at Clifton Hampdon on Saturday, 1 November. Fifteen anglers took part and found the conditions nearly perfect. After five hours Peter Craske was declared the winner, Ernie Russell came second and Mike Greenwood third.

RECORD SOCIETY The record society is reborn and the opening lunch time concert is on Tuesday 11 November at 1310 hours. Please take careful note of this time - 13.10. The programme is - HANDEL - Music for the Royal Fireworks, and, Concerto a due cori in F Major (Concerto No 2 for two wind bands & strings. Pro Arte Orchestra - Charles Mackerras.

Tuesday 18 November at 12.25. BEETHOVEN - Emperor Concerto, No 5 in Eb (piano concerto). Nuremberg Symphony Orchestra - Ralf Tshupp, piano-Hanae Nakajima.

CHRISTIAN FELLOWSHIP 14 November. Captain Ron Eaton of the Salvation Army at Abingdon will lead the meeting at 12.30 in the R12 Conference Room.

21 November. Ray Powell of Wages Section, will be reading from the final chapters of Revelation, at 12.30 in the R12 Conference Room. All welcome to both meetings.

RUTHERFORD LABROATORY BULLETIN

Published by the Scientific Administration Group

Editor: H F NORRIS

Deadline for Insertions

1000 hours Wednesday 19 November

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BEWITCHED

As Bill Bosher, Head of Technical Services Group said, having been given the privilege of wishing Pat Howe all the best on her retirement, he was faced with the task of digging into her past.

He was shattered to discover that she at one time, had been a racing correspondent! "All those tips we could have had - just think, we could have all been rich!"

Pat was born in The Curragh of Kildare, Southern Ireland, (her parents were there at the time) but she insists on being called a Berkshire lass; none of this Oxfordshire business. Apart from the Irish affair (her father was a jockey) Pat has always lived in Chilton village.

As a young girl she worked for her grandfather as a racing correspondent for several national papers including the Sporting Life, Daily Express & Daily Mail. After the death of grandfather, her sister joined her and they continued the service until the outbreak of war in 1939.

The mental picture of Pat, complete with field glasses, hiding behind bushes & spying out the form was quickly squashed. She employed a little man (an ex stable lad) for touting while she contacted the local trainers by phone every morning. In those days the village Post Office sent her copy off by 'wire'.

Pat joined the Air Ministry at Milton Depot in 1941 working mainly on stores issues & receipts for the next 18 years. She considers this to have been one of the happiest periods in her life; mind you she did meet husband Doug (now in R20 Bill Paying Section) during that time. She left in 1959 owing to the closure of the Depot, or, was it as Bill suggested - Pat left Milton Depot - it closed!

After a 6 year break Pat joined the Lab in 1965 working for most of the past 10 years in Engineering Division (still being faithful to her grade of clerical assistant).

Bill Bosher said he was more than sorry that she was retiring. The Lab was losing not only an extremely good worker but as all present knew, someone with great wit and cheerfulness. (The corridors of R20 seem very quiet this week). How she had put up with us all he would never understand. He wished Pat a long and happy retirement & on behalf of her numerous friends & colleagues, presented her with two large parcels, and a card. The parcels contained (& woe betide me if I get it wrong) a Lavender Rose pattern, Royal Albert, bone china, tea set. The card? Just 156 signatures!

Pat - well she was almost speechless but has since written to express her thanks for the beautiful tea set and accessories (I knew y'd forget something), and to say cheerio to all those she was unable to see personally before she left.

Pat, we all wish you lots of happiness. As for that Berkshire lass story, are you sure that you didn't bring some of that blarney back from the Curragh of Kildare?



I'LL TELL YOU!

A man who did not suffer fools gladly, who always spoke his mind and, one is sure, will continue to do so, retired from the Laboratory on the last day of October.

Norman Venn, Head of Nimrod Division, spoke of the pleasure and honour in being asked to make the farewell presentation to Charles Halfpenny. "There is a lot one could say about his name, but he really is a sovereign chap, however there is nothing retiring about Charles". Charles is well known for his forthright manner and direct approach, sometimes dare we say, to the consternation of colleagues, but he was invariably right in his appraisal of a problem. Hardly surprising for a man who had spent 12 months on bomb disposal work during the last war, a job which rarely allowed a second attempt!

He is a veteran of the 1939-45 war; at Dunkirk with the 4th Battalion, Royal Engineers as a Mechanical Instructor, then trained and became a qualified Mechanical Engineer in the Engineering Services, a special branch of the R.E.'s.

After the war Charles joined the old Ministry of Supply Mechanical Inspectorate. Following a short spell as an inspector with Morris Motors, he joined Harwell in 1951, as a mechanical inspector concerned with both internal & outside manufacturing work.

He joined the RL in 1960 as a shift foreman in the original Nimrod Vacuum department and was very involved with the later stages of Nimrod's construction. For many years he has worked as one of the six vacuum shift foremen on duties which also involved a knowledge of radiation protection.

Norman Venn said that a lot of people would no doubt be surprised to hear that Charlie was a property owner in Italy & has been for 20 years. He and his wife have a charming flat at Borgia Varezzi on the Italian Riviera, 2 mins. from the sea. Their plans - summers in England &, you've guessed, winters in Italy. Can't be bad!

Norman, on behalf of friends & colleagues wished Charles many happy years of retirement & presented him with a quartz wrist watch, a pipe, a card containing many signatures, a unique paper weight. Unique because it is in the form of a highly polished 1910 halfpenny, encapsulated in plastic.

This last present, Charles valued above all; for many years in the past he had given a polished halfpenny to any apprentice he considered had done a good job. A bouquet of flowers was presented to his wife.

In reply Charles thanked everyone for the gifts. He was glad to have known & worked with many of the people present, but if they expected a speech they would be disappointed. The man who spoke his mind had for once, nothing more to say.

We should like to join in wishing Charles and his wife many years of happy retirement, with just perhaps, a touch of envy about these winters to come and a certain flat 20 miles from Savona.