

INTERNAL EVENTS

NIMROD LECTURE SERIES
Monday 25 September
11.30
Lecture Theatre

A Dual Model of Inclusive Reactions

Professor G Veneziano/CERN

H E P DISCUSSION GROUP
Wednesday 27 September
11.00
Conference Room, Building RI

Phase Shift Analysis and Amplitude Analysis in πN and πN Scattering

Dr R Kelly/Lawrence Berkeley Laboratory

NIMROD SCHEDULE

CYCLE 12 19 9 72 - 10 10 72

MACHINE PHYSICS

HIGH ENERGY PHYSICS

| <u>Team</u> | <u>Beam</u> | <u>Experiment</u> | <u>State</u> |
|------------------------------------------------------|-------------|--------------------------------------------------------|--------------|
| Glasgow University RHEL | $\pi^+ N_4$ | Polarisation Measurements in $\pi^+ p$ Charge Exchange | Setting up |
| Bristol University Southampton University RHEL | K15 | $K^+ p$ and $\pi^+ p$ Differential Cross-Sections | Data |
| Churchill Hospital Oxford RHEL | $\pi^+ I$ | Radiobiological Experiment | Data |
| Cambridge University RHEL | K13C | Associated Production Cross-Sections | Parasitic |

EXTERNAL EVENTS

NUCLEAR PHYSICS COLLOQUIUM
 Thursday 28 September
 3.30
 Conference Room, H8, AERE

Irradiation Damage Experiments In the High Voltage Electron Microscope

Dr M J Makin Metallurgy Division, AERE

NOTE:- Because of the classified nature of some of the material to be discussed in this talk, it is necessary to restrict attendance to those holding Red H4 Passes.

1973 PARTICLE ACCELERATOR CONFERENCE
 5 - 7 March 1973
 San Francisco, California

The 1973 Particle Accelerator Conference - *Accelerator Engineering and Technology* will be held from 5 - 7 March 1973, at the Sheraton Palace Hotel in San Francisco, California. The subject of the meeting will be new developments in the science, technology, and use of accelerators, and the purpose will be to provide a channel of communication for accelerator scientists and engineers, and for persons concerned with the applications of accelerators.

The programme will include invited papers, panel discussions, and contributed papers on all aspects of accelerator science and technology. Contributed papers on new developments in the following or related topics may be submitted:

Accelerators

Cyclotrons and Synchrotrons
 DC and pulsed accelerators
 Linear accelerators
 Storage rings
 Collective effect accelerators
 Heavy-ion accelerators

Components

RF cavities and power sources
 Magnets and power supplies
 Ion sources and injectors
 Beam extraction, transport and targeting
 Instrumentation and control devices and systems

Technology and Theory

Cryogenic and vacuum technology
 Beam dynamics & high current effects
 Radiation monitoring and safety

Applications

Industrial and Medical
 Non-nuclear
 Thermonuclear

Further Information available from the Editor



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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

Mr C.W. Planner to CERN, 24-29 September, to assist in high power experiments on the TH 516 Power Amplifier Cavity.

Dr J.M. Valentine, to the U.S.A, 30 September - 6 October, to attend conference on Particle Accelerators in Radiation Therapy, at Los Alamos.

Mr J.M. Dickson, to the U.S.A, 30 September-15 October, to attend the 1972 Linac Conference at Los Alamos and to visit BNL and NAL for discussions.

SOCIAL NEWS

H.E.P. SUPPER DANCE

An H.E.P. Supper Dance will be held in the Restaurant, R22, on Friday 29 September, 8 p.m. - 1 a.m., with dancing to the Rhythm Aces. Tickets at 65p. (includes supper) can be obtained from Mrs V. Goodwin and Mrs W. Dance, R1; Mr Roy Brabben R20 and Mrs T. Batchellier, R34.

RUTHERFORD AND ATLAS CHESS CHAMPIONSHIP 1972-73

A last reminder that entries for the annual championship must be in by 27 September at the latest, to Pete Craske, Building R2 Ext 232. Ten pence will buy you approximately twenty weeks of chess and the chance to take part in matches arranged against other clubs in the district.

AERE HORTICULTURAL SOCIETY

Wisley is the home of the Royal Horticultural Society's world famous gardens and trial grounds. We are therefore delighted to announce that the opening lecture in the Society's Winter programme is to be given by Mr O.J. Clayton who is the Superintendent of the Floral Department at Wisley. We hope and expect that members, friends and others interested in gardens and gardening will make the effort to come along to the Rutherford Laboratory's Lecture Theatre at 7.30 p.m. on Tuesday 3 October.

Mr Clayton will be talking on "Wisley Gardens throughout the year", illustrated by colour slides.

Tickets at only 15p (includes light refreshments) from any committee member or from the Editorm will be available shortly.

Date for your Horticultural Diary:- Tuesday 14 November, 7.30 p.m. Mr J. (Joe) Elliott, acknowledged expert on alpiners, on "Alpiners without a Rock Garden"

RUTHERFORD CHALLENGE SHIELD COMPETITION - SEVEN-A-SIDE SOCCER

League Tables up to and including Wednesday 20 September:-

| GROUP 'A' | | | | | | | |
|-----------|---|---|---|---|---|---|-----|
| TEAMS | P | W | L | D | F | A | Pts |
| AERE 351 | 1 | 1 | 0 | 0 | 2 | 1 | 2 |
| Atlas | 1 | 1 | 0 | 0 | 2 | 1 | 2 |
| R 9 | 2 | 1 | 1 | 0 | 3 | 3 | 2 |
| AERE G.O. | 2 | 0 | 0 | 2 | 6 | 6 | 2 |
| Hall 3 | 1 | 0 | 0 | 1 | 2 | 2 | 1 |
| R 18 | 2 | 0 | 1 | 1 | 5 | 6 | 1 |
| C.A. Div. | 1 | 0 | 1 | 0 | 1 | 2 | 0 |

| GROUP 'B' | | | | | | | |
|------------|---|---|---|---|----|----|-----|
| TEAMS | P | W | L | D | F | A | Pts |
| AERE 220 | 2 | 2 | 0 | 0 | 10 | 0 | 4 |
| R 25 | 2 | 2 | 0 | 0 | 8 | 0 | 4 |
| TRANS | 1 | 1 | 0 | 0 | 8 | 0 | 2 |
| D.O. | 1 | 0 | 1 | 0 | 0 | 4 | 0 |
| AERE ADMIN | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| STORES | 1 | 0 | 1 | 0 | 0 | 8 | 0 |
| CASUALS | 2 | 0 | 2 | 0 | 0 | 14 | 0 |

FIXTURE LIST

| | |
|-------------------------------------|------------------------------------|
| Tues 26 Sept 'B' Stores v Casuals | Wed 4 Oct 'A' R18 v Hall 3 |
| Wed 27 Sept 'A' AERE 351 v Atlas | Thurs 5 Oct 'B' AERE ADMIN v TRANS |
| Thurs 28 Sept 'A' R9 v C.A. Div. | Fri 6 Oct 'B' R25 v D.O. |
| Fri 29 Sept 'B' AERE ADMIN v STORES | |

CHRISTIAN FELLOWSHIP

Friday 29 September. All welcome to join in a half-hour of Christian Fellowship at 12.30 pm in the R12 Conference Room. Meeting led by Geraldine Wood.