



SPORTS DAY SPECIAL

Up to ten fellowship
may be awarded each
year for full-time

research by young scientists of exceptional promise and proven capacity for original work. They are post-doctoral awards tenable in an Australian University or approved research institution normally for two years. Further details from Training Section, Building R20, Ext. 266.

**BRAZING FOR DESIGNERS
& SUPERVISORY STAFF** The British Association for
Brazing and Soldering is
holding a two-day course on
Brazing for Designers and Supervisory Staff at BNF
Metals Technology Centre, Wantage on 24 & 25 September
1975.

INTERNATIONAL CONFERENCE ON WELDING, SOLDERING & BRAZING IN ELECTRONICS.

The German Welding Society will hold an International Conference on 'Welding, Soldering and Brazing in Electronics' at Munich on 25-26 November 1976. Details of both these courses from the Training Section, R20, Ext. 266.

SRC BULLETIN The SRC Bulletin dated June 1975 was published recently. Copies can be obtained from the Library, Building R61.

INTERNAL EVENTS

HEP SEMINAR
Wednesday 23 July
11.00
R61 Conference Room

Particle Production from Nuclei.
A Bialas/Cracow and RL

HEP SEMINAR
Wednesday 30 July
11.00
R61 Conference Room

Current Quarks, Constituent Quarks and Resonances
M Kugler/Weizmann and RL

NIMROD SCHEDULE

CYCLE 3 22.7.75 - 12.8.75

		MACHINE PHYSICS	HIGH ENERGY PHYSICS
Team	Beam	Experiment	State
BRISTOL/SOTON/RL	K15a	No 120: K^- diff. cross-sections	setting up
CAMBRIDGE/RL	$\pi 12$	No 114: $\pi^- p \rightarrow K^0 \Lambda^0$ in the range 1.4 - 2.0 GeV/c	setting up
BIRMINGHAM/SURREY/RL	K17	No 156: X-rays from $K^- p$ atoms	Data
IMPERIAL COLLEGE/RL	$\pi 8a$	No 128: Meson production near threshold	Data
RUTHERFORD LABORATORY	$\pi 11$	No 154: Radio biological tests	Data
OXFORD/ROME/RL	T1	Test beam facility	Tests

RUTHERFORD LABORATORY BULLETIN

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Deadline
for
Insertions

GENERAL & SOCIAL NEWS

Tuesday 1600

INTERNAL & EXTERNAL EVENTS

Wednesday 1200

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Chilton Didcot Oxon
Abingdon 21900 Ext 484

SPORTS DAY RESULTS

Forecasting the results of sporting events 1975 seems to be a very hazardous occupation. The eighth annual SRC Sports Day certainly produced a few surprise results, foremost being the tennis tournament with RL taking 1st, 3rd and 4th places in the Mens' doubles.

One hundred and fifty competitors and supporters from the Atlas & Rutherford Laboratories journeyed to Chiswick on the morning of 3 July. The RL team returned late the same day with four firsts and three seconds to their credit. Seven events were contested and as this is Womens Liberation Year (and as the Editor firmly believes in self preservation), the first report is on the ladies netball competition.

Netball Five teams entered for the competition with the RL girls, trained to perfection & in excellent physical shape, eager to come to grips with their deadly rivals from the Atlas Lab, the 1971, 73 & 74 winners. The RL girls were out for revenge having unsuccessfully challenged the Atlas team in the 1973 and 1974 finals.

Battle was soon joined as in the very first match they were drawn against each other and Atlas went down by 5 goals to 11. To be fair Atlas were handicaped by an injury to a member of their team necessitating a substitute for the rest of their matches. The RL team maintained their 2 point lead until two thirds the way through the competition when their opponents, Daresbury, forced a 6-6 draw.

Atlas in the penultimate match beat Daresbury by 8-2 and maintained their challenge to the RL team, so the outcome depended on the final match. This was between Appleton and the RL and our girls made no mistake, running out winners by 6-2.

We offer our congratulations to the girls who made the victory possible: Pam Coulthard, Rita Blake, Shiela Shields, Susan Wood, Vschi Shand, Minnie Stoker, Lyn Pateman, Yvonne Cavenagh and Annie Cox. A big thank you is sent to Julie Read (ex Rutherford) for returning for the day to help the girls, also to Anne Rogers from Didcot for giving up her time to come and referee the competition.

As a final comment the following table proves the value of a good defence aided by an aggressive attack as shown by the goals for and against.

	Points	Goals	
		For	Against
1st Rutherford	7	34	17
2nd Atlas	6	35	24
3rd Daresbury	5	22	21
4th RGO	2	20	37
5th Appleton	0	12	24

P.S. Those rivals across the road are already prophesying victory next year - what a hope!

Cricket Having won the Cricket Cap SIX times out of eight the RL team, winners in 1973 & 1974, were confident of getting a hat trick for the first time. This confidence was almost shattered in their first round match against London Office, which the RL team won by a very narrow margin.

The competition as a whole was a great success, the excellent weather and a 16 overs per innings limit producing a feast of runs; the largest Sports Day total to date. Quite a number of wickets also fell during the day!

The first round win over LO was a near thing, the scores being LO 65 for 7 with Steve Hancock taking 3 wickets for 10 runs, and RL, 68 for 5 aided by John Craig's 24 runs.

The Atlas team having lost to Appleton (Atlas 73 for 6 - Appleton 76 for 0 in 9.1 overs) scored a great victory over LO bowling then all out for 51 in 14.1 overs & the knocking up 52 for 1 in 6.2 overs all made possible by some excellent bowling, brilliant fielding (six catches) and some very effective batting.

The draw for the semi finals produced an interesting situation with Daresbury v RGO and the RL v Appleton. The record book shows that the Rutherford cricketers had reached the final in 6 of the 7 competitions. In these six finals they had only been beaten once and this was by Daresbury in 1970. The only occasion they missed out was in 1973, the finalist that year being RGO & Appleton with RGO taking the cup.

Of the four possible combination for the final, one alone stood out - the chance to meet Daresbury, the only team to have beaten the RL in a final. This meant that Daresbury had to beat RGO which this they did by 96 runs to 92 and the RL had to dispose of Appleton. They did this in a very convincing style by scoring 77 runs for 2 wickets in 10 overs against Appleton's 76 for 7. Ray Smith, the RL captain contributed 50 not out. The RL having recovered from the early shock of a near defeat went into the final with their tails up.

This was the match of the day, with batsmen running riot. Daresbury toted up 104 for 4, a very respectable rate, not good enough however to win as the RL batsmen punished the Daresbury bowlers to the tune of 136 for 2. The outstanding performers were Eddie Smith 35 and Ray Smith 70 not out. Ray scored 131 runs during the day with only one dismissal, a Captains innings by any standard. Where were those England selectors!

We cannot end the cricket story without a special word of thanks to Frank Cooke for umpiring during a long hot day.

Football A record year for entries saw the RL represented by four experienced teams and our neighbours, the Atlas Lab with one. As Sports Day approached, rumours of a very strong challenge from the North of England grew with alarming speed. It was not surprising that the main threat to the Cupholders (the RL of course) was expected to come from Daresbury and their teams who had (apparently) cleaned up the local leagues.

Nineteen-seventy five is a very poor year for forecasts.

The challenge, when it came was from an unexpected quarter and, with deadly effect.

Throughout the day, closely contested games were played to their conclusion, and many good teams fell by the wayside. The competition was organised in the form of two leagues with the winners contesting the grand final. Rutherford 1 finished top of their league and in the other, one team had been quietly establishing themselves by good attacking football to a challenging position, a successful position to boot (sorry - Ed). In the final Rutherford 1 found themselves facing, not their old rivals from Daresbury but a team from RGO who had only once before reached the final. The result, a decisive defeat for the RL team with RGO proving worthy winners with a 4-0 victory.

This is the first time RGO have won the Football Cup; all due credit to the Observatory Team and to Phil Gibbs their captain.

Tennis The Mens' Doubles half of the tennis tournament must take pride of place in the day's events. For the first time in the eight

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years it has been held, a Rutherford Lab pair, Peter Houzago and Keith Taylor, came first. They were ably backed up by Harry Hurst & Peter Girard who took third place and Peter Smith and Peter Keith in fourth. To be fair, the holders & it is believed winners for the past seven years from Appleton, were unable to compete this year. Nevertheless, a fine victory.

The event, played as an 'American' tournament, meant each team played six short sets, the winner of each set being the first to win six games. The RL victors lost the first match of the day to Harry Hurst & Peter Girard but went on to win the other five scoring a total of 36 to 35 games. The outcome of this tournament was in doubt up to the final game of the day between the RL third place team and Appleton which the latter won by 6-3; any increase in the RL pairs score would have affected all the leading positions.

Altogether a very close match, hard fought throughout the day with an RL team winning in spite of playing the afternoon session in the Sahara Desert - well that's their story.

The mixed doubles was won by an Appleton pair, the sole RL pair only managing third place in their group.

Chess This was another closely contested competition in which each player was allowed 10 mins per game. It developed into a battle between the Appleton 'A', RGO 'A' and RL 'A' teams, all depending on the last game between Appleton and RGO.

At this stage both of these teams had only dropped half point each having drawn with the RL 'A' team who, having dropped a total of one point, were lying in second place. Appleton beat RGO in the final game to run out winners by half a point, the final positions being Appleton 'A' - 8½ points from 9; Rutherford 'A' with 8 & RGO, the holders, with 7½.

The RL 'A' consisted of Peter Craske,

Cris Barling and John Guy with John undefeated in all his games, a repeat of his 1973 success.

Bowls The RL was well represented by 11 players enabling them to enter three teams in the 'Triples' a knock-out event, with the other two players joining a LO team in the American 'fours'.

The three RL teams were:- Cyril Grindrod, Alec Goode & Tim Molyneux - 'A' team; Graham Simms, G Thomas & Paul Pennington - 'B' team and Ron Hogan, Eric Kirby & Peter White in the 'C' team. As all three RL teams survived the first round we had no entries in the 'Fours' so the two remaining RL players, Alan Slater and Bill Rouse (who retired from the Lab about 2 years ago) joined the LO team.

The 'triples' semi finals were between two RL teams and Appleton & the other RL team the former going through to the final against the RL 'A' team. This was a match to remember lasting 2½ hours, playing 18 ends. Up to the 17th end RL 'A' were leading 18-15 & Appleton had to get 3 to draw the match. The RL 'A' team fought off the challenge to run out winners by 20-15. One of the 18 ends was tied in no uncertain manner with two opposing woods touching the jack.

The 'fours' were contested by two Daresbury & two LO teams with a Daresbury team the eventual winners.

Tug-of-War There is little to report on this bit of fun except to report each team consisted of four men and four girls and a scratch team from the RL came second. The girl members coming from our netball team.

At all sporting events there is always the possibility of injuries occurring to some of the contestants and it is on such occasions that the call is for First Aid. A special word of thanks is therefore extended to the First-Aid men, Alan Watson and Bill Almond.

RL NOTICES & CIRCULARS ISSUED WITHIN THE LAST MONTH

10/75 - Health and Safety at Work. RL CIRCULAR NO.
12/75 - Meetings for period 1 July - 31 December 1975.

RL NOTICE NO. 9/75 -
AERE Assisted Travel
Scheme RL NOTICE NO.

SALES TO EMPLOYEES

Sales of scrap metal and plastics, as set out in RLN 12/73 will be made on the following dates:- 25 July, 8 August and 22 August, 1975.

TABLE TENNIS

The Table Tennis club will hold its AGM on Friday 25 July at 1300 hours in the Atlas Conference Room. All those wishing to play in the Didcot League are urged either to attend this meeting or let Eric Thomas, Ext. 6219, know of your intention beforehand, since the teams will be selected at the meeting.

The room in R15 has been cleaned and repainted, and new lighting is being installed. Why not come along and support your own club.

OVERSEAS VISITS

Mr D D Cohen and Mr D Webb, to CERN 23-29 July, to work on neutron calibration experiment.
Mr F F Freeman, to ILL Grenoble, 23 July, to participate in an experiment using D5.
Dr G C Stirling to ILL Grenoble, 23 July-12 August, to participate in experiments.
Dr G E Kalmus, to the USA, 24 July-13 September, to visit Berkeley, SLAC, U. of California, ANL, NAL & BNL.
Dr M R Jane, to CERN, 27 July-27 August to run experiment to calibrate neutron counter.
Dr W G Williams, Messrs B C Bolan, P L Davidson, F F Freeman and J C Sutherland to Holland, 4-8 August, to attend neutron Diffraction Conference at Petten.
Dr Williams, Mr Davidson and Mr Sutherland are also presenting papers.

CHRISTIAN FELLOWSHIP

25 July: All are welcome to meet at 12.30 in the R12 Conference Room for a time of prayer.
1 August: The monthly prayer meeting will be held as usual, at 12.30 in the R12 Conference Room.