

**ATF 1984
PROGRAM**

Monday, 20 August

0930-1000 Morning tea, Conference Room Foyer

Introduction

1000-1005 Conference Convenor: John Fallon, AAEC

Opening Address

1005-1015 Dr Pat Kelly, Deputy Director, Research, AAEC

Session I Chairman, Bill Senior, AAEC

Facilities

1015-1025 John Fallon: 3 MV Van de Graaff, AAEC

1025-1035 Roland Szymanski: Pelletron, Melbourne University

1035-1045 Geoff Baxter: 1.3 MV Van de Graaff, CSIRO, LHRL

1045-1055 Alan Cooper and

Alex Lawson Pelletron, ANU

1055-1105 Robert Short: Tandetron, RMIT

1105-1115 Don Stevenson: Ion Implantation, CSIRO, LHRL

1115-1125 Steve Guggenheimer: Betatron, Melbourne University

1125-1135 Chris Ryan: Tandetron, CSIRO, North Ryde

1135-1145 Harry Woodley: Neutron Generator, AAEC

1145-1155 Andrew Smith: Cockcroft Walton, UNSW

1155-1200 Reserved

Session II Chairman, Laurie Russell, AAEC

1200-1300 Ion Sources: Types, species of ions, timing,
reconditioning and maintenance,
associated power supplies and RF
oscillators, modifications.

1300-1400 Lunch and Product Display, AINSE Theatre Foyer

Javac Pty Ltd: John Eweg

Balzers High Vacuum Equipment: Charles Bernie

(Note: No equipment will be displayed by Balzers;

Charles Bernie will be available to discuss

their products.)

Session III Chairman, Geoff Baxter, CSIRO

1400-1500 Charging Systems: belts, chains, tubes, columns, high
voltage breakdown, conditioning,
maintenance and repair.

Session IV Chairman, Robert Short, RMIT

1500-1530 High Voltage Power types, safety aspects, maintenance.

Supplies:

1530-1550 Afternoon tea, Conference Room Foyer

Session V Chairman, Chris Ryan, CSIRO

1550-1630 Gas Handling methods, precautions, maintenance.

Facilities:

Session VI Chairman, Steve Guggenheimer, Melbourne University
1630-1700 Radiation: sources of, problems presented and
measures taken to ensure safety

Social Evening: Chinese banquet at Miranda RSL.
Transport departs LHRL 1900.

Tuesday, 21 August

Session VII Chairman, Roland Szymanski

0900-1030 Vacuum Techniques

- (i) A short resume from each participating laboratory giving details of machine and beam line pressures. types of pumps used, materials used in beam lines and gaskets, types of gauges.
- (ii) Open discussion to include above topics and reference to:
- reasons for choice of pumps and gauges;
 - maintenance and problems associated with pumps and gauges;
 - reasons for choice of materials, vacuum compatibility mechanical and electrical properties;
 - cleaning methods-of materials; mechanical, chemical electrical;
 - diagnostic methods used in leak detecting, gas analysis devices.

1030-1050 Morning tea, Conference Room Foyer

1050-1230 Vacuum Techniques (cont'd)

1230-1330 Lunch and Product Display, AINSE Theatre Foyer

ETP Group: Fred Blake

Varian Pty Ltd: David Varvel

Session VIII Chairman, Andy Rawlinson, ANU

1330-1430 Beam Line Hardware: magnets and power supplies, focusing lenses, cold traps - automated fitting, beam profile monitors, apertures and collimators, slits, gate valves, chambers, alignment techniques.

Session IX Chairman, Alex Katsaros, AINSE

1430-1500 Targets: types, manufacture, cooling.

1500-1520 Afternoon tea, Conference Room Foyer

Session X New Technology

1520-1540 John Boldeman: proposed Accelerators for AAEC

1540-1600 Bob Turkentine and Howard Wallace: A post Accelerator for the Pelletron at ANU

Closing Discussion

1600-1615 Chairman, John Fallon, AAEC