

Australian National University, Canberra

14th to 16th September 2004

Dear Accelerator colleague,

The organising committee welcomes you to the 2004 Accelerator Technical Forum at the ANU. Your contribution is important to the success of the Forum. We hope that you take away useful information and experiences on accelerators and also that you establish some new contacts and friendships with other accelerator personnel.

The Forum is designed to promote technical and engineering work undertaken at the various accelerator and related laboratories with focus on new developments, problems faced and/or resolved and general overviews of activities including safety, quality and licencing.

Presentations

Presentations may be in either PowerPoint format or standard film overheads. Both a video projector and overhead projector will be available. If you are making a PowerPoint presentation, it is preferred that you email a copy of your final presentation to Fred Johnson (fred.johnson@anu.edu.au) before Friday 10th September. If this is not possible then please ensure that you pass a copy of your file to the designated computer support person at the registration desk on your arrival. Various storage media are acceptable but please ask if you are unsure. For those who prefer to use overheads, please ensure a copy of your presentation is given to one of the staff at the registration desk or any of the organising committee for inclusion in the final handout package.

If you find that your allocated presentation time is not adequate and discussion time is too short then we encourage you to continue the discussion during the many breaks throughout the day.

Breaks

Lunch, morning and afternoon tea is provided near the conference room. During the two nights of the Forum, dinner will be provided. If you have dietary concerns please let someone on the organising committee know as soon as possible.

Access & Parking

Access to the university from the city is via the entrance off either Barry Drive or Clunies Ross St. See end of document for maps. Parking around Nuclear Physics is tight but if you arrive before 9:30 AM, there is usually space in the lot behind the Nuclear Physics building as shown in the accompanying maps. You will need a parking voucher to park on campus available at the registration desk.

Forum Dinner

The Forum will include two dinners. On Tuesday 14th a Spit Roast dinner will be provided near the Forum venue. A second Forum dinner on Wed 15th Sept will be at the Lemon Grass Thai restaurant in London Circuit in the City. Ample parking is available across the road.

Guests/partners are welcome to attend the dinners but an extra cost will apply. An extra person for the Spit Roast dinner on the 14th will cost \$18.40 and the restaurant dinner on the 15th will cost \$27.00. Please advise Alan Cooper (email:alan.cooper@anu.edu.au or phone:(02)6125 2085) by Friday 10th if you intend to bring another person so that bookings may be adjusted. Payment can be made at registration.

Concessions Area

Within a 10-minute walk of the Forum venue there is a concessions area on the ANU campus with banks, ATM's, eateries, a bookshop and a post office.

Sponsors

The Forum is pleased to acknowledge the contributions made by the following companies:

SCITEK

Dieter Muff
dieter@scitek.com.au

Parker Hannifin and BOC Gases

Renato Larosa
RLarosa@parker.com

Scientific Devices Australia

Anders Agtoft
aagtoft@scientific-devices.com.au

National Electrostatics Corporation

Greg Norton
nec@pelletron.com

CMS Alphatech

Nigel Attwood
NA@cmsalphatech.com

Group 3 Technology

Robin Gummer
Group3Tech@compuserve.com

AVT Services

Kevin Armstrong
Armstrong@avtservices.com.au

JAVAC

David Swan
davids@hard.net.au

Technical brochures and displays will be available during the course of the Forum

Organising Committee

David Garton (Convenor) – ANSTO

Phone: + 61 2 9717 3665 email: dbg@ansto.gov.au

Dr David Weisser – Australian National University

Phone: +61 2 6125 2080 email: david.weisser@anu.edu.au

Rolland Szymanski – University of Melbourne

Phone: +61 3 83447405 email: ras@physics.unimelb.edu.au

Fred Johnson – Australian National University

Phone: +61 2 6125 9746 email: fred.johnson@anu.edu.au

Alan Cooper – Australian National University

Phone: +61 2 6125 2085 email: alan.cooper@anu.edu.au

Program

Day 1 Tuesday 14/09/04

Time	Session	Description	Presenter	Time mins
9:00 – 9:30	Registration			
9:30 – 10:30	Introduction	(Chair: David Garton) Welcome	Prof G Dracoulis – Head of Nuclear Physics Dept, ANU	10
		Housekeeping	David Garton – ANSTO	10
	Laboratory Overviews	ANU, Nuclear	David Weisser – ANU Nuc	20
		ANU, Electronic Materials Eng	Fred Johnson – ANU EME	20
10:30 – 11:00	Morning Tea			30
11:00 – 12:45	Laboratory Overviews	(Chair: David Weisser) ANSTO	David Garton – ANSTO	15
		Uni of Melbourne	Roland Szymanski – Uni Melb	15
		ANSTO – SIMS	Ian Kelly - ANSTO	15
		New Zealand - Geological & Nuclear Sciences	Chris Purcell – GNS NZ	15
		Canberra Hospital	Peter Caunt – RCH	15
		Perth Cyclotron – Sir Charles Gairdner Hospital ANSTO Cyclotron - RPAH	Thomas Tuchyna – SCGH	15
		Michael Druce – ANSTO	15	
12:45 – 13:45	Lunch			1 hour
13:45 – 15:00	Ion Sources	(Chair: Nikolai Lobanov) RF Ion Sources	Roland Szymanski – Uni Melb	20
		846B Ion Source Modifications	Peter Drewer – ANSTO AMS	20
		Gas Cathode for a SNICSII	David Weisser – ANU Nuc	20
		Motor Alternator Set for Ion Sources	Alan Cooper – ANU Nuc	20
15:00 – 15:30	Afternoon Tea			30
15:30 – 17:30	Laboratory Tour	Nuclear Physics 14UD/LINAC		2 hours
17:30 – 18:30	Happy Hour			1 hour
18:30 – 20:30	Spit Roast	Nuclear Physics Department		

Day 2 Wednesday 15/09/04

Time	Session	Description	Presenter	Time mins
9:00 – 10:30	Accelerator Equipment	(Chair: Roland Szymanski) Gas Stripper	Alan Cooper – ANU Nuc	15
		Spark Protection in the Terminal	David Anderson – ANU EU	15
		3MV Charging Belt	Greg Cooke - ANSTO Acc Ops	15
		Gridded Buncher	Andy Rawlinson – ANU Nuc	15
		External HV Breakdown on the 2MV Tandetron	David Button – ANSTO IBA	15
10:30 – 11:00	Morning Tea			30
11:00 – 12:30	Safety	(Chair: Bob Turkentine) Quality and Safety	David Garton – ANSTO Acc Ops	20
		Cooperite Neutron Shielding	Alan Cooper – ANU Nuc	20
		ARPANSA licensing	David Garton – ANSTO Acc Ops	30
		SF6 Safety	Alan Cooper – ANU Nuc	20
12:30 – 13:30	Lunch			1 hour

Day 2 Wednesday 15/09/04 *continued*

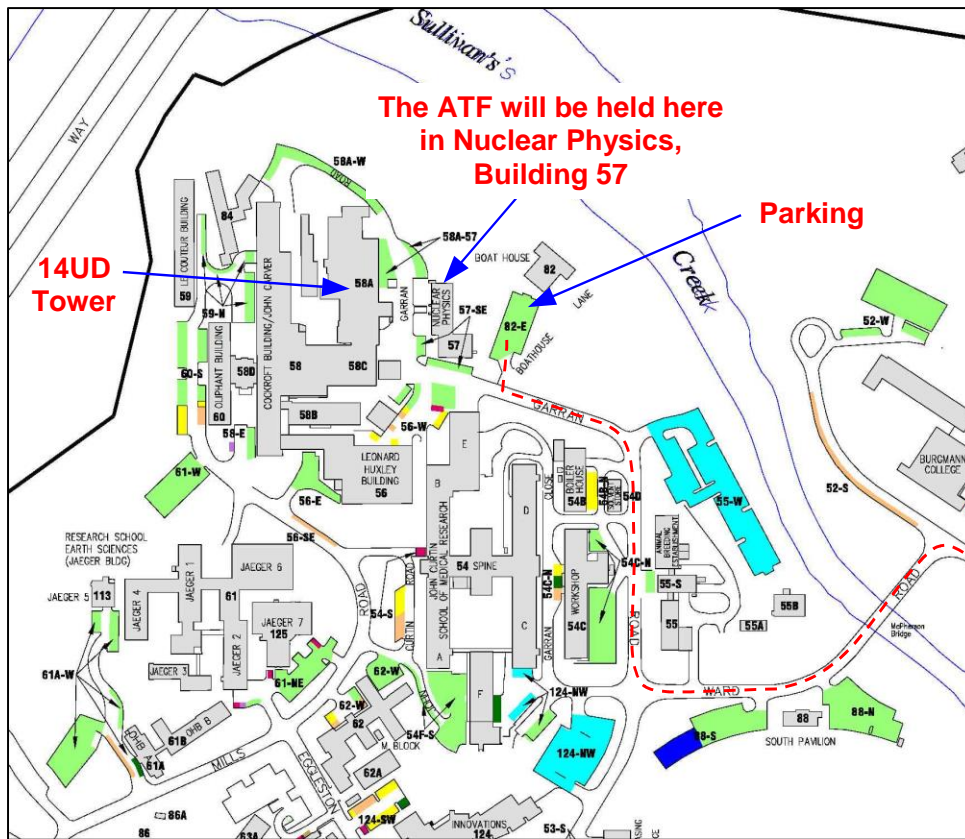
Time	Session	Description	Presenter	Time mins
13:30 – 15:00	Accelerator Systems	(Chair: Alan Cooper)	Damien Lynch – ANSTO Acc Ops	15
		Computer Control System & EPICS	Bob Turkentine – ANU Nuc	15
		Target Making	Steve Gatt - ANSTO Acc Ops	15
		SF6 Gas Plant Upgrade @ ANSTO	Alistair Muirhead – ANU Nuc	15
		Automated LN2 Distribution System @ ANU	Adam Sarbutt - ANSTO Acc Ops	15
		Water Cooling of Accelerators @ ANSTO Discussion		
15:00 – 15:30	Afternoon Tea			30
15:30 – 17:00	History Laboratory Tour	History of Accelerators	Roland Szymanski – Uni Melb	30
		Electronic Materials Engineering		60
17:30 – 18:30	Discussion and Happy Hour	Nuclear Physics		60
18:30 – 20:30	Dinner	Lemon Grass Thai Restaurant London Circuit, City		

Day 3 Thursday 16/09/04

Time	Session	Description	Presenter	Time mins
9:00 – 10:30	Vacuum	(Chair: Fred Johnson)	Kevin Thorpe – ANSTO Acc Ops	20
		ANTARES Vacuum & Cryo-pump Repairs	Justin Heighway – ANU Nuc	20
		Turbopump Rebuilds	Roland Szymanski – Uni Melb	20
		Terminal Pumping		
		Discussion		
10:30 – 11:00	Morning Tea	Sponsored by	Parker Hannifin and BOC	30
11:00 – 12:00	Discussion on Future Forums	(Chair: David Garton) Where to from here?	Open forum	60

**The attached program should be used as an indication only of the forum events and program sequence. The program may change prior to the start of the forum. A final version will be provided at the registration desk.*

Location Maps for the ATF



--- Direct route to Nuclear Physics