

### Time Tuesday 20 May

#### 08:00 – 09:00 Wake up coffee – Mundo Runway

**09:00** Briefing on the day's activities. Front of Rydges Hotel – David Garton

**09:20** Bus leaves for ANSTO. Pickup location: Surf Lane, behind Rydges Hotel

**10:00** Morning tea and introduction to ANSTO at the Discovery Centre

**11:30 – 15:30** Tour of ANSTO's accelerator facilities, including:

- Talk and demonstration on 3D printing – Shane Long, ANSTO
- Tours of Opal

#### 13:30 – 14:30 BBQ Lunch at ANSTO

**16:00** Bus back to Cronulla arriving approximately 16:30

### Time Wednesday 21 May

#### 08:00 – 8:45 Registrations and Wake up coffee

**08:45 – 9:00** Welcome and Housekeeping – David Garton

#### Facility Updates – Chair: David Garton

**09:00** John Boldeman – Hadron Therapy Facility

**09:30** ANSTO Camperdown Cyclotron Lab Report – Nikolas Paneras, ANSTO

**10:00** Improvements to the Injection Efficiency Monitor at the Aust. Synchrotron – Don McGilvery

#### 10:30 – 11:00 Tea and Coffee

#### Computer Control Systems 1 – Chair: from Camperdown Cyclotron

**11:00** Progress Report on the Accelerators Upgrade at ANU – Nikolai Lobanov, ANU

**11:40** Super E Target Loading System – Thomas Tunningley, ANU

**12:00** HV Insulators - Trials and Tribulations – David Garton, ANSTO

**12:20** Development of Embedded Shutter Controller for IMBL Beam line – Emmanuel Vettoor, AS

**12:40** ANU's new 8 Tesla Solenoidal Separator experimental end station – Alistair Muirhead, ANU

#### 13:00 – 14:00 Lunch (Provided at Rydges)

#### Accelerator Systems 1 – Chair: Don McGilvery

**14:00** The New Computer Control System of the 14UD Accelerator - Dimitrios Tsifakis, ANU

**14:30** Moving from a VME based system to EtherCAT – Damien Lynch, ANSTO

**15:00** The EPICS QT Framework Being Developed at the Aust. Synchrotron – Andrew Starritt, AS

#### 15:30 – 16:00 Tea and Coffee

#### Open Forum – Chair: David Button

**16:00 – 17:00** Open Session

| Time                 | Thursday 22 May   |
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| <b>08:00 – 9:00</b>  | <b>Wake up coffee</b>   |
|                      | <b>Facility Updates – Chair: David Cohen</b>  |
| <b>09:00</b>         | <i>University of Melbourne – Facility Overview – Roland Szymanski, UoM</i>  |
| <b>09:30</b>         | <i>Report on Recent Accelerator Maintenance – Alistair Muirhead, ANU</i>  |
| <b>10:00</b>         | <i>The Design and Manufacture of Particle Accelerator Systems – Chris Philpott, Buckley Systems Limited, New Zealand</i>          |
| <b>10:30 – 11:00</b> | <b>Tea and Coffee</b>   |
|                      | <b>Vacuum Systems – Chair: Alistair Muirhead</b>  |
| <b>11:00</b>         | <i>Technology &amp; Product Updates – Vitali Polonski, John Morris Scientific</i>   |
| <b>11:20</b>         | <i>How big, how thick, how strong - Guidelines for Vacuum Vessel Design – Mick Mann, ANSTO</i>                                    |
| <b>11:40</b>         | <i>The Innovations in Dry Vacuum Technology – Sathish Nagarajan, EzziVision</i>   |
| <b>12:00 – 13:00</b> | <b>Lunch (self-catered)</b>   |
|                      | <b>Computer Control Systems 2 – Chair: Dimitrios Tsifakis</b>   |
| <b>13:00</b>         | <i>Control Electronics for AMS on ANTARES at ANSTO – Geoff Watt, ANSTO</i>  |
| <b>13:30</b>         | <i>Vacuum Interlocking and Accelerator Control with NI LabView and CompactRIO – Tristan Steele, ANU</i>                           |
| <b>14:00</b>         | <i>Between a Control System and a Hard Place – David Button, ANSTO</i>  |
| <b>14:30 – 15:00</b> | <b>Tea and Coffee</b>   |
|                      | <b>Accelerator Systems 2 – Nikolai Lobanov</b>  |
| <b>15:00</b>         | <i>Development of a New RF Peak Detector &amp; Phase Monitoring Unit – Adam Michalczyk, AS</i>                                    |
| <b>15:20</b>         | <i>International Carbon Ion Therapy Treatment Modalities: How to Use an Accelerator to Treat Cancer – Dale Prokopovich, ANSTO</i> |
| <b>15:40</b>         | <i>An ACAS perspective on Accelerators in Australia – Geoff Taylor, UoM</i>   |
| <b>16:10 – 17:00</b> | <i>Open Session</i>   |
| <b>18:00 – 21:00</b> | <b>Conference Dinner at <i>Little Italy</i></b>   |

| Time                 | Friday 23 May  |
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| <b>08:00 – 9:00</b>  | <b>Wake up coffee</b>  |
|                      | <b>Accelerator Systems 3 – Chair: Peter Linardakis</b>                                       |
| <b>09:00</b>         | <i>A study of Ion Beam Optics in SIBA2 beam line on STAR accelerator – Jian Wang, ANSTO</i>  |
| <b>09:20</b>         | <i>ANU 14UD Three-Frequency Buncher Upgrade – Peter Linardakis, ANU</i>                      |
| <b>09:40</b>         | <i>An update on ANSTO Alphasross Operations – Peter Drewer, ANSTO</i>                        |
| <b>10:00</b>         | <i>The ANU Alphasross Ion-Source – Reliability and Development Issues – Tom Kitchen, ANU</i> |
| <b>10:30 – 11:00</b> | <b>Tea and Coffee</b>  |
|                      | <b>Business Meeting – Chair: Tony Mowbray</b>  |
| <b>11:00</b>         | <i>Open Session and Business Meeting (all welcome)</i>                                       |
| <b>13:00</b>         | <i>Close</i>   |