

**Program: ACAS Workshop 2010 on Accelerator Feedback Systems  
(AINSE Theatre)**

**Monday 13 December 2010**

**09:00 – 12:30 Keynotes**

09:00 Welcome

09:10 The need for accelerators in science, medicine and industry - Ken Peach

10:10 Controlling Beams on the Edge of Stability - John Fox

*11:10 Morning coffee – ANSTO Café*

11:30 Tuning the LHC with a PC Soundcard - Ralph Steinhagen

**12:30 – 13:30 Lunch**

**13:30 – 17:00 Feedback and control**

13:30 Bunch-by-bunch feedback system for electron storage rings - Dmitry Teytelman

14:15 Agilent - Greg Tate

*14:35 Afternoon coffee – ANSTO Café*

14:55 Feedback requirements for RF stabilization of normal and superconducting resonators - Nikolai Lobanov

15:40 Fast orbit correction on electron storage rings - Eugene Tan

16:10 Feedback control for FELs - Greg LeBlanc

16:40 Cosylab - Gasper Pajor, Rok Sabjan

**17:00 – 18:00 Cosylab Cocktails**

**18:00 – 20:00 Dinner (ANSTO Café next to AINSE building)**

**Tuesday 14 December 2010**

**09:00 – 12:30 Vacuum**

09:00 Vacuum upgrade of Heavy Ion Accelerator Facility at ANU - Justin Heighway

09:30 An update on dry vacuum pumping on the STAR accelerator - Peter Bond

10:00 Limitations of cryopumps recent operating issues with xenon and helium, solutions - Michael Mann

10:30 Scitek Australia - Craig Marshall

*11:00 Morning coffee — ANSTO Café*

11:30 Development and production of moulded neutron shield for SOLEROO - Alan Cooper

12:00 Good optical fibre practice on the ANSTO accelerators – lessons learnt - Peter Drewer

**12:30 – 13:30 Lunch**

**13:30 – 16:00 Afternoon**

13:30 Mechanical grounding system for ion source terminal - Gareth Crook

14:00 Use of Ferrites to reduce noise in feedback systems - Michael ten Have

*14:30 Afternoon coffee — ANSTO Café*

15:30 A Status update of 14UD Computer Control and Data Acquisition System - Dimitrios Tsifakis

**16:00 - 18:00 ANSTO Tour**

## **Wednesday 15 December 2010**

### **09:00 – 12:30 Modelling and Controls**

09:00 The Development of IRMS++ and the Application of 3D Modelling Tools - David Button

09:30 Magnetic field controller for bending magnets - Tony Mowbray

10:00 National Instruments - Rory Cox , Jeremy Taylor

*10:30 Morning coffee – ANSTO Café*

11:00 Voltage stabilization of the Electrostatic Accelerator - David Kelly

11:30 Alignment of accelerator systems - a very slow feedback system - Jonathan McKinlay

12:00 Recent alignment improvement in HIAF at ANU - Alan Cooper

### **12:30 – 13:30 Lunch**

### **13:30 – 15:30 Ion Sources**

13:30 Multiple stripper gas selector for the ANTARES accelerator - Tony Mowbray

14:00 An improved single cathode caesium sputter ion source - Michael Mann

14:30 Alphasource source improvement - Thomas Kitchen

15:00 Changed high voltage conditioning methods for ANTARES - David Garton

*15:30 Afternoon coffee – ANSTO Café*

### **16:00 - 17:00 A new accelerator for Charged Particle Therapy – Ken Peach**

Public Lecture to workshop and the medical community

### **17:00 – 17:10 Closeout**