

THE PHYSICS OF PROBING – WITH EMPHASIS ON NEUTRONS

**SAIP Winter School of the 57th Annual Conference of the SA Institute of Physics,
Applied Physics Forum**

**hosted by the University of Pretoria and presented by Necsa and invited international
experts**

Monday 9th July, 2012

DRAFT PROGRAMME

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| 08:00 | Registration starts (Refreshments) |
| 09:00-09:45 | Fundamentals of the interaction of quanta with matter |
| 09:45-10:30 | Probing Techniques and Diagnostics |
| 10:30-11:00 | Tea |
| 11:00-11:45 | Overview of trends in neutron science |
| 11:45-12:15 | Further questions and discussion of the morning session |
| 12:15-13:15 | Lunch |
| 13:15-14:15 | Selected neutron diffraction applications (Dr Vladimir Luzin, Bragg Institute Australian Nuclear Science & Technology Organisation) |
| 14:15-15:15 | Selected neutron imaging applications (Dr. Burkhard Schillinger, Neutronentomographie ANTARES Forschungsreaktor FRM-II, Technische Universität München) |
| 15:15-15:30 | Tea |
| 15:30-16:15 | Some fast neutron techniques and applications |
| 16:15-17:00 | Epilogue (wrap-up) |