

Sunday 13 November

09:00 – 17:00	INTDS Board meeting
18:00 – 20:00	Registration and Cocktail Reception <i>Protea Hotel Stellenbosch</i>

Monday 14 November

08:00 – 09:00	REGISTRATION	
OPENING SESSION Chair: N Kheswa		
09:00 – 09:30	Opening address by the Deputy Director: iThemba LABS Dr R Nemutudi	
SESSION 1 Chair: N Kheswa		
09:30 – 10:30	Invited talk: D Schumann Isotope production and target fabrication at PSI	O-42
10:30 – 11:00	<i>C Stodel</i> Targets' control systems for S3	O-4
11:00 – 11:30	Tea/Coffee Break	
SESSION 2 Chair: J Greene		
11:30 – 12:00	<i>D Vanleeuw</i> Implementation of new integrated evaporation equipment for the preparation of ²³⁸ U targets and improvement of the deposition system	O-7
12:00 – 12:30	<i>B Lommel</i> Planning of a new Target Laboratory for GSI & FAIR	O-9
12:30 – 13:00	<i>E A Maugeri</i> Production and characterization of ⁷ Be targets	O-14
13:00 – 14:00	Lunch	
SESSION 3 Chair: K Eberhardt		
14:00 – 14:30	<i>A Mitu</i> Preparation of Os and W targets by pulsed laser deposition (PLD) for nuclear astrophysics experiments	O-16
14:30 – 15:00	<i>R Boll</i> Mixed Californium Electrodeposition Target Update	O-22
15:00 – 15:30	<i>Y Yamazaki</i> Study of the lifetime for the charge stripper foils in the 3-GeV RCS of J-PARC	O-35
15:30 – 16:00	Tea/Coffee Break	
SESSION 4 Chair: H Hasebe		
16:00 – 16:30	<i>S Lubbe</i> Business Development Associate at Inert , An Innovative Technology, Inc. Company	
16:30 – 17:00	<i>N Y Kheswa</i> iThemba LABS nuclear physics target laboratory upgrades and targetry	O-26
	Free evening	

Tuesday 15 November

SESSION 5 Chair: A Stolarz		
09:00 – 10:00	Invited talk: I Silverman Scientific opportunities at SARAF with the LILIT neutron source	O-36
10:00 – 10:30	<i>J Greene</i> Ca-48 targets - home and abroad!	O-29
10:30 – 11:00	<i>S Zeisler</i> Recycling ¹⁰⁰ Mo for direct production of ^{99m} Tc on medical cyclotrons	O-40
11:00 – 11:30	Tea/Coffee Break	
SESSION 6 Chair: B Lommel		
11:30 – 12:00	<i>D B Steski</i> Improvements of the target lifetime in the RHIC Polarimeter	O-30
12:00 – 12:30	<i>D Marín-Lámbarri</i> Production of ⁹ Be targets for nuclear physics experiments	O-24
12:30 – 13:00	<i>E Bagli</i> Crystalline targets for the enhancement of the nuclear interaction yield	O-45
13:00 – 14:00	Lunch	
SESSION 7 Chair: G Sibbens		
14:00 – 14:30	<i>S K Chamoli</i> Novel technique of making thin target foil of high density material via rolling method	O-17
14:30 – 15:00	<i>A Sthuthikkatt Reghu</i> Fabrication and characterization of thin isotopic I44, I54 Sm targets sandwiched between carbon layers	O-25
15:00 – 15:30	<i>G F Steyn</i> Encapsulation methods for solid radionuclide production targets at a medium-energy cyclotron facility	O-0
15:30 – 16:00	Tea/Coffee Break	
16:00 – 18:00	iThemba LABS Tour	
18:00 – 21:00	Spitbraai (Barbecue with lamb on the spit)	

Wednesday 16 November

SESSION 8 Chair: M Nkosi		
09:00 – 09:30	<i>R Bark</i> The South African isotope facility project	O-46
09:30 – 10:30	Invited talk: A Andrighetto UC _x target preparations and characterizations	O-43
10:30 – 11:00	<i>S Heinitz</i> Radioactive lanthanides - from isotope production to nuclear physics experiments	O-32
11:00 – 11:30	<i>P Jardin</i> Thin and thick targets for radioactive ion beam production at SPIRAL1 facility	O-13
10:30 – 11:00	Tea/Coffee Break	
12:00 – 18:00	Excursion	

Thursday 17 November

SESSION 9 Chair: S Zeisler		
09:00 – 09:30	<i>A Stolarz</i> Targets for studies of the medical radioisotopes production with α and p/d beams	O-34
09:30 – 10:00	<i>G F Steyn</i> Single-jet gas cooling of in-beam foils or specimens: prediction of the convective heat-transfer coefficient	O-1
10:00 – 10:30	<i>A Tatami</i> Preparation of multi-layer graphene sheets and their applications for particle accelerators	O-3
10:30 – 11:00	<i>V Jaggi</i> Boron stripper foils for particle accelerators	O-43
11:00 – 11:30	Tea/Coffee Break	
SESSION 10 Chair: B Kindler		
11:30 – 12:00	<i>H Kuboki</i> Investigation of charge stripping scheme for uranium ions at 1 - 20 MeV/nucleon	O-33
12:00 – 12:30	<i>W Weterings</i> First experience with carbon stripping foils for the ^{16}O MeV H-Injection into the CERN PSB	O-2
12:30 – 13:00	<i>H Hasebe</i> Developing of rotating graphite carbon disk stripper	O-15
13:00 – 14:00	Lunch	
SESSION 11 Chair: N B Ndlovu		
14:00 – 15:00	POSTER PRESENTATIONS <i>All poster presenters will be given 5 minutes to introduce their posters. See list of poster presentations at the end of the programme</i>	
15:00 – 15:30	POSTER VIEWING	
15:30 – 16:00	Tea/Coffee Break	
SESSION 12 Chair: P Papka		
16:00 – 16:30	<i>A Laffoley</i> ACTAR TPC: An active target and time projection chamber for nuclear physics	O-5
16:30 – 17:00	<i>J W Brummer</i> A ^{20}Ne gas active for active-target detector development at iThemba LABS	O-6
19:00 – 23:00	GALA DINNER	

Friday 18 November

SESSION 13 Chair: D B Steski		
09:00 – 09:30	<i>B Kindler</i> Investigation of ^{208}PbS -Target on C-Backing	O-10
09:30 – 10:00	<i>G Sibbens</i> Morphological and compositional study of ^{238}U thin film targets for nuclear experiments	O-11
10:00 – 10:30	<i>G Schaumann</i> Non-contact measurements of thin free-standing layer targets with chromatic point confocal metrology	O-39
10:30 – 11:00	<i>A Sthuthikkatt Reghu</i> Target development of oxidising materials	O-37
11:00 – 11:30	Tea/Coffee Break	
SESSION 14 Chair: H Kuboki		
11:30 – 12:00	<i>L Kotsedi</i> Germanium thin film nano and micro-texturing using femtosecond laser	O-41
12:00 – 12:30	<i>K Eberhardt</i> Actinide targets for fundamental research in nuclear chemistry and –physics	O-38
12:30 – 13:00	<i>J Greene</i> New evaporator station of the Centre for Accelerator Target Science	O-28
13:00 – 13:15	<i>G Sibbens</i> Status of the work package 3 in the CHANDA project	
13:15 – 13:45	CLOSING	
13:45 – 14:30	Lunch	
14:30 -	DEPARTURE	
14:30 -	INTDS Board meeting	

Thursday 17 November
POSTER SESSION (SESSION 11)
Chair: N B Ndlovu

List of Poster Presentations

14:00 -14:05	<i>X Fuku</i> Bimetallic nanocomposite via green process for environmental applications	P-1
14:05 -14:10	<i>L Rendani</i> Electrodeposited Ni nanowires - track etched P.E.T. composites as selective solar absorbers	P-2
14:10 -14:15	<i>I T Madiba</i> Effects of gamma irradiations on reactive pulsed laser deposited vanadium dioxide thin films	P-3
14:15 -14:20	<i>N Matinise</i> Green synthesis of cobalt (II, III) oxide nanoparticles using Moring Oleifera natural extract: studies on thermal, optical and electrochemical properties	P-4
14:20 -14:25	<i>N Mayedwa</i> Development of a tyrosinase amperometric sensor based on ultrasensitive Zinc oxide and Tin binary nanoparticles on modified glassy carbon electrodes for the detection of Bisphenol A (4,4'-isopropylidenediphenol) in water	P-5
14:25 -14:30	<i>P T Molema</i> Study of the Pygmy Dipole Resonance in deformed nuclei at iThemba LABS	P-6
14:30 -14:35	<i>R Neveling</i> The target vacuum storage facility at iThemba LABS	P-7
14:35 -14:40	<i>J Sackey</i> Characterization of the wings of Papilio kotzebuea (Escholtz, 1821) butterfly as solar absorber	P-8
14:40 -14:45	<i>B Sone</i> Aqueous chemical growth as a method for producing thin films of multifunctional metal oxides: the case of tungsten trioxide	P-9
14:45 -14:50	<i>N Thovhogi</i> Nanoparticles synthesized by green process via selected plant extracts and their possible application in medicine	P-10
14:50 – 14:55	<i>M Hamza</i> Green synthesis of BiVO ₄ using plant extracts	P-11
14:55 – 15:00	<i>T Nethavhanani</i> Synthesis of ZnO nanoparticles by a green process and the characterization of their physical properties	P-12
15:00 -15:30	Viewing of posters	