					EPC : 11-14 AUG PRELIMINARY	UST 2013	-				
Day	Date	Time		Item					Name		
		47.00.40.00				DAY 0					
		17:00 - 18:00					Registrations				
~	Sunday 11 August 2013	18:00 – 22:00 Programme Directo	or: Mr. Xolisa Vitsba ( N	National Research Foundation)		Welcoming F	unction (Endorsed by THRIP)				
Day 0	nda Jugi 013	18:00 - 18:10		from Hosting organisation			Dr. Zeblon Vilakazi -MD; iTh	emba LABS			
Õ	Su 1 A 2	18:10 - 18:40	Keynote address				Dr. Isaac Salagae: Deputy D				
	-	18:40 - 19:00	Video – "The Journe				Dr. Rocky Skeef				
		19:00 - 21:00	Networking and Coo				iThemba LABS				
		00.20 00.00	Kau Nata Addasas	DAY 1	Session Chair: Dr Rocky Skeef: E	xecutive Dire					
		08:30 - 09:00 09:00 - 09:30	Key Note Address Speech					ector-General- Department of l	rtment of Science and Technology		
		09:30 - 10:00		eratives for the Energy Sector in South Africa				NIASA & Group Executive at A			
		10:00 - 10:30		t for Human Capacity Development and Knowle	dge Generation		Dr. Gansen Pillay – NRF De		it ong		
		10:30 - 11:00	Topic TBC		<b>v</b>		AREVA (TBC)				
		11:00 - 11:45			Tea Break Formal Ope	ning of Exhib	itions & Energy Experience (	Centre (Dignatory TBC)			
		11:45 - 13: 00		Nu	clear Focussed, Cross-Cutting Er	nergy Focused	& Renewable Focussed, Prese	entations by Post-Graduate Stu	udents		
				Track: Nuclear		Track: Ren			Track: Renewables 1		
		Breakaway Sessions I		Session Chair (Prof Lindsay)	Mr. MONTWEDI,		nair (Prof Madjoe) analysis of barriers and	Mr. TSHEHLA,	Session Chair (Prof Manyala) Evaluation of six Saccharomyces	Ms. MANDE. Livhuwani	
		(11:45 - 12:00) 11:45 - 12:00	Neutronic simulation of the European	Ontlametse		tunities for the growth of	Maloba	cerevisiae promoters during growth	mo. m/ mbe, ennament		
				Pressurised Reactor		renewable e	energy technologies at the		on xylose		
						Inlot and ou	tlet shape-optimization of		Intensification of methane production		
			12:00 - 12:15	Understanding uranium reduction	Ms. PALM, Sherilee		lation building ventilation	Mr. SWIEGERS, Cobus	at SABMiller Newlands Brewery	Mr. NKADIMENG, Lefa	
						system			(SABNB) anaerobic Wastewater Treatment Plant (WTP)		
									· · · /		
			12:15 - 12:30 Measurement of Level Density and Photon Strength Function in 138La	Measurement of Level Density and Photon		Developme	nt of a range of heat pipe		Evaluation of the solar irradiance in the selected locations in the Vhembe		
		m		Mr. KHESWA, Bonginkosi		ry heat exchangers for the	Mr. THOMAS, Nathan	District of the Limpopo Province of	Ms. MULAUDZI, Sophie		
	t.				drying indus	stry		South Africa using different			
-	Monday 12 August 2013		-						theoretical models.		
Day 1	onc Auç 201			Uncertainty and Sensitivity analysis of a	Mr. MODUKANELE.	Developme	nt of a universal bidirectional		Influence of Canting Mechanism and		
	12 J		12:30 - 12:45	Materials Test Reactor with the aid of	Mogomotsi		lated switch module for	Mr. KOPANO, Mokhalodi	Facet Profile on Heliostat Field	Mr. LANDMAN, Willem	
			12.30 - 12.43	Flownex	wogunota	power conv	erter applications		Performance		
				Simulation and control implications of a high temperature modular reactor (HTMR)			ructures based	Mrs. SIMO. Aline	Thermochromic nano-coatings for	Ms. MATHEVULA,	
			12:		cogeneration plant nuclear energy for	Mr. TSHAMALA, Carl		ors for low power energy	wis. Siwo, Ainc	solar radiations heat regulation in	Langutani
			12110 10100	power and coal		consumptio	n hydrogen sensing		small satelittes	<b>J 1</b>	
		13:00 - 14:00				Lunch	& Visit to Exhibitions				
		14:00 - 15:00		Nu	clear Focussed, Cross-Cutting Er	nergy Focused	& Renewable Focussed, Prese	entations by Post-Graduate Stu	udents		
				Track: Nuclear		Track: Ren			Track: Renewables 1		
		Breakaway	14:00 - 14:15	Session Chair (Dr Lalk)	Mr. SCHLüNZ, Evert B		nair (Mr Zibi)	Mr. JEGGELS, Dawood	Session Chair (Dr Mtshali)	Mr. APOLLO, Seth	
		Sessions II (14:00 - 15:00)	11.00 11.10	Optimising the placement of fuel		Ineoretical	and experimental simulation		Simultaneous biogas production and		
		(14.00 13.00)	14:15 - 14:30	Microstructural characterisation and thermal properties of model high	Mr. MAGAMPA, Philemon		chines for Renewable	Mr. SOLOMON, Ramzi	Liquefaction of sunflower husks for	Ms. PIYO, Nontembiso	
			. 1.10 11.00	temperature reactor graphite composites:		Energy IPP	Applications		biochar production		
				Search low spin states at high excitation		Geotherma	heat recovery and		A novel approach to reduce ray	Mr. BODE,	
			14:30 - 14:45	energy in 20Ne with the (p,t) reaction	Mr. SWARTZ, Cobus		sing heat pipes	Mr. LOUBSER, Karl	tracing simulation times by reducing statistical noise	Sebastian-James	
				Conservation laws and analytical solutions			lysis on the regulation of				
			14:45 - 15:00	for a two-dimensional tortuous hydraulic	Ms. KGATLE, Mankabo		esources to promote energy	Ms. VAN DER BANK,	Gratzel dye solar cells with bixa	Mr. ZONGO, Sidiki	
				fracture	Rahab		sustainable building	Marjone	orellana natural dye extract		

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					EPC 11-14 AUG PRELIMINARY	UST 2013					
Day	Date	Time		Item					Name		
		15:00 - 15:35				Exhbiti	ons visit (Tea on spot)				
		15:40 - 17:00									
					DA			,			
		Session Chair: Dr N	Icholu Manyala- SARC	hl Chair in Carbon Technology and Materials, U			PC 2013 Oversight Committee	2			
		08:30 - 09:00		l Element in Human Capital Development in Sou			Dr. Margaret Mkhosi Preside	- ent: Women in Nuclear South A	Africa-WINSA & General Manager at Techr	nology Innovation Agency	
		09:00 - 09:30	The Energy Mix with	hin the SA energy landscape			Dr Don Mingay		<u> </u>		
		09:30 - 10:00		ation & Empowerment			Ms. Hlengiwe Sayd Project				
		10:00 - 10:30		ons and Cooperation (Topic to be confirmed)				or: NRF International Relations			
		10:30 - 11:00	Topic to be confirme	ed				nergy Institutional Research Th	neme, Graduate School of Technology Mai	nagement	
		11:00 - 11:10 11:10 - 11:20	SANi or HySA M'SONE				SANi/ HySa rep (TBC) Prof. Simon Connell				
		11:20 - 11:30	SOLAR				Prof Wikus van Niekerk				
		11:30 - 12:00	JULAK			Tea Brea	ak & Visit to Exhibitions				
				Nuclear Focusse	ed, Cross-Cutting Energy Focuss			by Post-Graduate Students			
			12:00 - 12:15	Track: Nuclear Session Chair (Dr Naicker) Examination and improvement of SHEM multigroup energy structures	Dr. NGELEKA, Tholakele	Track: Ren Session Ch Theoretical verification		Mr. DU PREEZ, Jacques	Track: Renewables 1 Session Chair (D Kotsedi) Photovoltaic module characterisation using Electroluminescence	Ms. CROZIER, Jacqui	
		Breakaway Sessions III (12:00 - 13:45)	12:15 - 12:30	Real options valuation for South African nuclear waste management using a fuzzy mathematical approach	Mr. MONTSHO, Obakeng		mic doped vanadium ings for smart windows	Ms. PHILANDER, Ghouwaa	Thermal storage in packed beds: pressure drop and heat transfer characteristics	Mr. ALLEN, Kenneth	
			12:30 - 12:45	Characterization of the 2+ excitation of Hoyle state in 12C	Mr. NEMULODI, Fhumulani	Nano-satelli facilitators ir	tes as energy efficiency n Africa	Mr. TADADJEU SOKENG, lfriky	High temperature thermal energy storage and heat transfer using eutectic metals in concentrating solar power	Mr. KOTZÉ, Johannes	
2	day gust 3		12:45 - 13:00	Exact solutions and conservation laws of the generalized double sinh-Gordon equation	Mr. MAGALAKWE, Gabriel		subcritical and transcritical ide refrigeration system	Ms. FOURIE, Marna	Thermodynamic stability of VO2 in contact with thin metal films	Ms. THABEZHE, Nokwethemba	
Day	Tuesday 13 August 2013		13:00 - 13:15	Flow regime recognition in two-phase thermosyphon loops using pressure pulse analyses:	Mr. RUPPERSBERG, Coenraad	technologica	of nanofibers for al application by ing of polymer-graphene	Mr. MANABILE, Segaula Isaac	An investigation into the synergistic action of exo-type and endo-type cellulases on the hydrolysis of complex substrates	Ms. THORESEN, Mariska	
					13:15 - 13:30	A study of crack formation and its effective internal surface area using X-ray Micro- Tomography (XMT)	Ms. SEAKAMELA, Teffo		ion sensorless control of a entire speed range	Mr. BARNARD, Francois	Building of a free piston Stirling demonstrator engine
			13:30 - 13:45	The development of a converter target for the production of radioactive beams at iThemba LABS	Mr. NGCOBO, Zipho		nent magnet wind turbine pology comparison using	Mr. STANDER, Johan	Pt-Al2O3 ceramic nano-composites for high temperature solar absorbers applications	Mrs. NURU, Zebib Yenus	
		13:45 - 14:15				Lunch	& Visit to Exhibitions				
			14:15 - 14:30	Track: Nuclear Session Chair (Dr Ntshangase) Polynomial interpolation of the few group homogenized cross sections of a mixed oxide fuel assembly	Mr. CHIFAMBA, Saymore	Thermodyna	nair (Dr Otto) amically driven gravity ter pump based on novelty	Mr. CRAIG, Rob	Track: Renewables 1 Session Chair (Prof Chikwembani) Impact of inhibitors associated with lignocellulose hydrolysates on the expression level and activity of recombinant cellulolytic enzymes	Mr. MHLONGO, Sizwe I	
		Breakaway Sessions IV	14:30 - 14:45	Reduction of uranium-(vi) under microaerobic conditions using an indigenous mine consortium	Ms. CHABALALA, Simphiwe	study of its of possible use	f hematite nanorods for the optical properties for the e in hydrogen production	Mr. NDLANGAMANDLA, Cebo	Chemical synthesis of graphene for dye solar cells electrodes.	Mr. THEMA, Force Tefo	
		(14:15 - 15:30)	14:45 - 15:00	Exploring the spectroscopy of vibrational levels in the transitional rare earth region	Mr. MAJOLA, Siyabonga	Current to d Marine Ener	ssessment of the Agulhas etermine Feasibility for rgy Extraction	Ms. MEYER, Imke	A hybrid dephlegmator for incorporation into an air-cooled steam condenser	Mr. OWEN, Michael	
			15:00 - 15:15	Analysis of flow through cylindrical packed beds with small cylinder diameter to particle diameter ratios	Mr. VAN DER MERWE, Wian	and Genetic permanent	of Differential Evolution Algorithm in the design of magnet Generators	Mr. LILLA, Daleel	Design, optimisation and construction of a solar reflecter dish	Mr. MEYER, Rohan	
			15:15 - 15:30	Simulation of an inherently-safe system for	Mr. LOUBSER, Karl	The effect o	f climate change on wind	Ms. HERBST, Lynette	Design & construction of a self-	Mr. PRINSLOO, Gerro	

	EPC 2013 11-14 AUGUST 2013 PRELIMINARY PROGRAMME						
Day	Date	Time	Item		Name		
			a nuclear reactor energy source	resources in	South Africa	tracking solar concentrator for power generation in rural Africa	
		15:30 - 16:00	Tea Break & Visit to Exhibitions				
		16:00 - 17:00		Poster Session	(in same area as Exhibitions	s)	

						EPC2013 AUGUST 2013			
						IARY PROGRAMME			
Day	Date	Time	Item			Name			
						DAY 3			
		Session Chair: Dr /	Aldo Stroebel: Executiv	e Director – International Cooperation & Rela	tion				
		08:30 - 09:00	Future Perspectives for the Energy Industry in South Africa			Mr. Phumzile Tshelane: SANHARP progra	amme architect, CEO Necsa		
		09:00 - 09:30	Energy Policy			Honourable Sisa Njikelana: Chairperson: F	Parliamentary Energy Portfolio	Committee on Energy	
		09:30 - 10:00		) (Renewable Energy in South Africa)		Mr Kanedi Nassiep: CEO, SANEDI			
		10:00 - 10:10	MANUS & MATSCI			Prof Robert Lindsay			
		10:10 - 10:20	CRSES			Prof Alan Brent			
		10:20 - 10:30	SANHARP Success	s Story (Topic to be confirmed)		Mr Monnamme Tlotleng			
		10:30 – 11:00		Nuclear Francisco de Care	- Cutting Engage England	Tea Break & Visit to Exhibitions Renewable Focussed Presentations by Post-0			
					S-Culling Energy Focussed, F		araduate Students (Specialised	Track: Renewables 1	
			11:00 – 11:15	Track: Nuclear Session Chair : (Ms Nwokedi) Assembly discontinuity factor calculation for use in the nodal expansion method	Mr. SCHOLTZ, Graham	Track: Renewables 2 Session Chair: (Prof Sankaran) Micro-utilities using battery based distribution for rural electrification in South Africa	Mr. VAN DER WALT, James	Session Chair: (Dr Maluta) Potential of using Organic Fraction of Solid Municipal Waste (OFSMW) for biohydrogen production in South Africa	Mr. SEKOAI, Patrick Thabang
	Wednesday 14 August 2013	Breakaway Sessions V (11:00 - 12:45)	11:15 – 11:30	Production of Sn-117m with a high specific activity by recoil	Ms. THOANE, Kefilwe Thato	The development of a segmented variable pitch small-scale horizontal axis wind turbine with active pitch control	Mr. POOLE, Sean	Factors influencing the conversion efficiency of a PV module	Mr. OZEMOYA, Augustine
Day 3			11:30 – 11:45	Monte Carlo study to determine the neutron flux spectrum for a water phantom: preliminary results	Mr. MAKHUBELA, Mathews	The development of recombinant fungal enzyme cocktails for the hydrolysis of cellulosic waste products	Ms. DOBSON, Rosemary	Low temperature deposition of silicon nitride thin films by hot-wire CVD	Mr. ADAMS, Abdulghaaliq
ä			11:45 – 12:00	Bayes theorem in failure mode and effects analysis	Mr. BLAINE, Peter	Pressure rigidised wind turbine blades - a novelty	Mr. STANDER, Johan	Scenarios for a South African peaking CSP system in the short term	Mr. SILINGA, Cebo
			12:00 – 12:15	Development of a very high- temperature heat pipe heat exchanger	Mr. LAUBSCHER, Ryno	Techno-economic analysis of an off-grid micro-hydrokinetic river system for remote rural electrification	Mr. KUSAKANA, Kanzumba	Evaluating yeast hybridization to improve hydrolytic enzyme secretion for second generation bio-fuel production.	Ms. SIBANDA, Ntsako
				12:15 – 12:30	Characterization by x-ray diffraction of polycrystalline diamond samples from different origins	Ms. MOIPOLAI, Tshegofatso	Development of platino- iridium/ruthenium telluride nanoalloy electrode systems for high performance ammonia fuel cell	Mrs. MAYEDWA, Noluthando	The evaluation of macro-algae as a feedstock for bio-energy production within the South African context
			12:30 – 12:45	Preliminary results of a Monte Carlo study of neutron beam production at iThemba LABS	Mr. MULAUDZI, Immanuel	Thermally driven natural circulation water pump	Mr. HOBBS, Kyle	The bio-energy potential of the South African sugarcane industry and its expected influence on sustainable development.	Mr. MULLER, Christopher
		12:45- 14:00				Lunch & Visit to Exhibitions			
	Wednesday 14 August 2013	Breakaway Sessions VI (14:00 - 15:45)	14:00 - 14:15	Track: Nuclear Session Chair: (Prof Rousseau / Prof Connell) Thermal Hydraulic Simulation of a Supercritical-Water-Cooled Reactor Core using Flownex	Ms. MNGOMEZULU, Fikile	Track: Renewables 2 Session Chair (Prof Dobson) Design and performance analysis of renewable energy powered electric TUK-TUK battery charging stations in South Africa	Mr. KUSAKANA, Kanzumba	Track: Renewables 1 Session Chair (Dr Adonis) Exploring a systems approach for the economic assessment of small-scale anaerobic biodigesters for rural areas	Mr. SMITH, Michael Trevor

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V11 30 July 2013

					11–14	EPC2013 AUGUST 2013 ARY PROGRAMME			
Day	Date	Time	Item			Name			
						DAY 3			
			14:15 - 14:30	Study of fast neutron irradiation-induced damage on graphite and Zircaloy-4	Mr. MAHAFA, Tshepo	Mechanical design of a dual permanent magnet rotor generator	Mr. STANDER, Johan	Feasibility study and business plan for manufacturing a 3 kw- electrical solar Stirling engine and dish, for a stand-alone power supply unit	Ms. KAYOFA, Lelo
			14:30 - 14:45	Simulating the position sensitivity of the iThemba LABS segmented clover detector	Mr. NONCOLELA, Sive	Evaluation and design aspects of magnetically geared electrical machines	Mr. GERBER, Stiaan	Concentrator photovoltaic module Design	Mr. SCHULTZ, Ross
			14:45 - 15:00	Evaluation of a rate form of the equation of state for use in transient homogeneous two-phase flow simulation models	Mr. FICK, Lambert	Bats (Chiroptera) and wind energy - can bat activity patterns make them vulnerable to wind turbine impacts?	Mrs. THWAITS, Tiffany	Integral solar water heating using heat pipes and phase change material (pcm) thermal storage	Mr. MALAN, Daniel
			15:00 - 15:15	Transient and unsteady behaviour and simulation in multi-channel natural circulation loops	Ms. SANGWENI, Lucy	Design of a high efficiency converter for fuel cell applications	Mr. KUYULA, Christian	Yeast hardening for cellulosic ethanol production	Ms. BRANDT, Bianca
			15:15 - 15:30	Study of octupole vibrations in nearly spherical nuclei	Ms. KHUMALO, Nontobeko	Surface Tension Driven Water pumping	Mr. FRASER, Justin	Metal to metal-oxide transformation using ultra-fast laser on thin films for electromagnetic spetrum selection	Dr. KOTSEDI, Lebogang
			15:30 - 15:45	The analytical study of radon concentration in soil and river water in Gauteng, South Africa using RAD7	Mr. MASEVHE, Livhuwani	Performance modeling of a hybrid diesel generator-Battery hybrid system	Mr. KUSAKANA, Kanzumba	Barriers and incentives to widespread adoption of bio fuels crops by smallholder farmers in SA	Mr. CHETENI, Priviledge
		15:45 - 16:15				Tea Break Poster Session			
		16:15 - 17:00			Plena	ry Feedback, recommendations & Official	Closure Session		

	SPONSORED EVENING ENGAGEMENTS STELLENBOSCH LODGE ENTRY FREE – SUPPER SERVED PRIOR TO START						
Day	Date	Time	Item	Name			
			EVENING DAY 1				
1	Programme Director: Prof Malik Maaza: iThemba LABS						
vening Day 1	Aonda Augu 2013	19:00 - 20:00	Head to Head Debate: This is equivalent to the roundtable discussions with the Minister of Energy (13 June 2013 in Cape to determine the level of enthusiasm of the youth i.e. the workforce of tomorrow for the national plan in the 9.6GW nuclear build programme	Mr. Jeetesh Keshaw: Director: Nuclear Technology, Ms Judy Nwokedi, Prof Wikus Van Niekerk & Dr Thandi Mgwebi			
ш	20:00 - 21:00 1 hour questions/responses between participants and expert in the field. The subject would be "The energy mix within the SA energy landscape" Dr. Don Mingay: Physicist						

	SPONSORED EVENING ENGAGEMENTS STELLENBOSCH LODGE ENTRY FREE – SUPPER SERVED PRIOR TO START					
			EVENING DAY 2 (THRIP)			
	Programme Director: Dr Zolani Dyosi: Director, Applied Research & Innovation					
Evening Day 2	19:00 - 20:00       Idem previous Debate:         Head to Head Debate (1 hour questions/responses between participants and expert in the field. The subject would be "The role of Women and Youth in the energy sector within the SA energy landscape"       Mr. Gaopalelwe Santswere: Nuclear Physicist Eskom & Executive Chairperson SYNAPS					
		20:00 - 21:00	Science Communication and Engagement	Mr. Lorenzo Raynard : Lorenzo Raynard, Manager, Science Communication Unit, SAASTA		

		EPC 2013 AWARDS EVENING & GALA DINNER SPONSORED BY NECSA 14 AUGUST 2013 NOOITGEDACHT ESTATE STELLENBOSCH WINELANDS	
Day & Date	Time	Time	Name
	Programme Direc	ctor: Dr Gillian Arendse (iThemba LABS)	
	18:30 - 19:00	Arrival & Plated Starter	
	19:00 - 19:05	Introduction of NRF CEO	Dr Gillian Arendse
	19:05 - 19:20	Keynote Address	Dr Albert van Jaarsveld (Chief Executive Officer: National Research Foundation)
Evening Day 3 14 August 2013	19:20 - 19:30	Video "The Journey's End?"	
Eve Da 14 Au 20	19:30 - 19:45	Post-Graduate Excellence Awards	
	19:45 - 19:55	Best Poster & Best Presenter Awards	Prof Ncholu Manyala & Prof Simon Connell
	19:55 - 20:00	Special Recognition Certificates & Gifts	Dr Rocky Skeef & Dr Albert van Jaarsveld
	20:00 - 21:30	Main Course & Entertainment	NRF
	21:30 - 21:40	Vote of Thanks	

# ACKNOWLEDGEMENTS

#### The NRF would like to acknowledge the following Sponsors:

- The Department of Science & Technology
- The Department of Energy
- NECSA
- CRSES
- SANEDI
- iThemba LABS
- UP Graduate School of Technology Management
- Cape Town University of Technology
- SAASTA
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- TIA
- WINSA
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- NTP

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# This event was made possible by the support of the following:

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Ms. Judi Nwokedi	Submitted	Nuclear Sector	
Mr Jeetesh Keshaw	Submited	DOE	
Dr. Carol Nonkwelo		UP	
Dr. Rocky Skeef		NRF	
Dr. Isaac Salagae	Submitted	DST	
Prof. Robert Lindsay		UWC	
Prof Malik Maaza	Submitted	IThemba LABS	
Dr Gillian Arendse		iThemba LABS	
Dr Van Zyl de Villiers		NECSA	

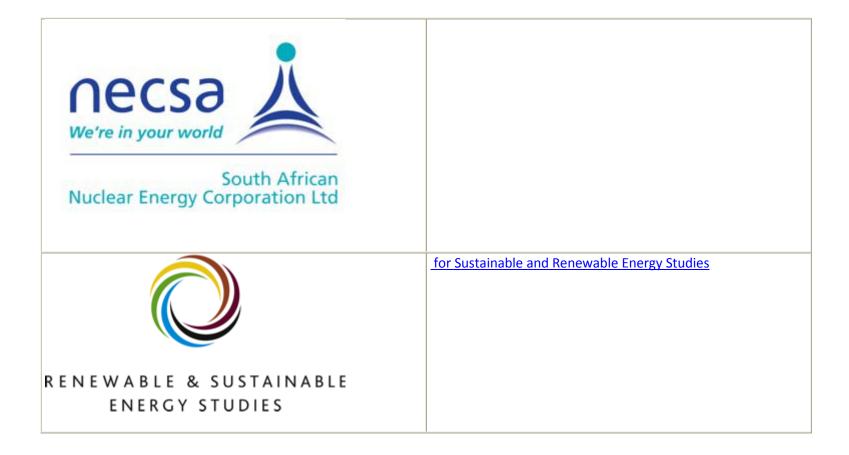
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Prof Vaith Sankaran	Submitted	UP	
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