Programme, Tuesday 4 November 2014

rogramme Diı	rector	Prof Norman Fitz-Coy
Time	Presenter	Торіс
07:45	Registration and tea, coffee	Early morning networking
08:15	Prof Japie van Zyl (guest speaker)	JPL interplanetary nanosatellite misisons
	Director of Project Formulation	
	Jet Propulsion Laboratories	
08:45 - 09:40	Session 1: Industry perspectives	Chair: Siyabonga Copiso, SANSA
08:45	Robin Sampson	
09:05	Clyde Space Johan Erasmus	BCA Collaboration on the OPEO pro-cursor launch campaign
	ISIS, South Africa	RSA Collaboration on the QB50 pre-cursor launch campaign
09:25	General open floor discussion	
10:00 - 11:10	Session 2: Development Process Management	Chair: François Visser
10:00	Prof Norman Fitz-Coy Research Chair	Introductory notes
	CPUT / University of Florida	
10:05	Prof Mellet Moll	Using Systems Engineering and Quality Management practices
	Head of Postgraduate Programme	to develop a blueprint for a sustainable nanosatellite
	Department of Industrial and Systems Engineering	organisation at CPUT
	CPUT	
10:25	Mr André Bester	An evolutionary approach to Cubesat manufacturing beyond
	Head of Department	rapid prototyping
	Department of Industrial and Systems Engineering CPUT	
10:45	Mr Jean-Claude Kabala	A systems engineering approach to quality management of a
	Postgraduate student	nanosatellite development life-cycle
	Department of Industrial and Systems Engineering	
11:00	CPUT Constant floor discussion	
	General open floor discussion Session 3: Technology and Applications Chair: Dr Noel Grand	
11:10 - 12:40	Session 3: Technology and Applications	
11:10	Dr Mike Kosch Chief Scientist	Science with CubeSats
	SANSA Space Science	
11:30	Prof Pierre Cillers	HF DF Array and DOA estimation algorithms for the ZACUBE-1
	Senior Researcher	HF Beacon
	SANSA Space Science	
11:50	Ms Smita Francis	Joint SANSA/PoN/CPUT project on Remote Sensing of the Upp
	Programme Manager	Ionised and Lower Neutral Atmosphere Using Signals from
	Namibian Institute of Space Technology	Global Navigation Satellite Systems and Satellite-borne Radio
	Hosted by the Polytechnic of Namibia	Beacons
12:10	Ms Doreen Agaba	Topside ionospheric sounder based on spaceborne MIMO rada
	Postgraduate student	with frequency division and code division
12:30	University of Cape Town General open floor discussion	



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13:15 - 14:20	Session 4: Technology and Applications	Chair: Laurent Dusseau
13:15	Mr Danie de Villiers Development Engineer	Nano-satellite in-situ monitoring: An adaptable approach to communication schemes through SDR-based technology
	Africa Space Innovation Centre CPUT	
13:30	Mr Arno Barnard	Low Cost Fault Tolerant Techniques and Radiation testing for
	Lecturer	Nano/Pico-Satellite Applications
	University of Stellenbosch	.,
13:50	Mr Deon Coetzee	Development of a Spaceframe together with ancillary structures
14:10	Radio amateur SOAP BOX	5 minute presentations by individual students, or groups
14:20 - 15:25	Session 5: Operations	Chair: Dr Pierre Cilliers
14:20	Mr Leon Steenkamp Development Engineer Africa Space Innovation Centre CPUT	TshepisoSAT: One Year in Space
14:40	Riaan Greeff Vaal University of Technology	Development of remote groundstation capability from Vaal University of Technology
15:00	Johann Lochner	Demonstration
15:25 - 15:40	Spaceteq TEA/COFFEE BREAK	
	Session 6: QB50	Chair: Arno Barnard
15:40	Mr M-A Kearney	ZA-AeroSat: A QB50 CubeSat demonstrator for multidisciplinary
15.40	ESL University of Stellenbosch	technology and scientific research
16:00	Prof Herman Steyn Head of Computer and Control Systems Group University of Stellenbosch	An Attitude Control System for ZA-AeroSat subject to significan Aerodynamic Disturbances
16:15	Mr Tristan Allain Laboratoire Interuniversitaire des Systèmes Atmosphériques l'Université Paris-Est Créteil Val de Marne, Paris	OGMS-SA: System overview of a 3U-CubeSat - platform and payload
16:30 - 17:20	Session 7: Technology and Applications (ADCS)	Chair: Prof Herman Steyn
16:30	Mr W Jordaan ESL University of Stellenbosch	ADCS of DeorbitSail and CubeSail
16:45	Mr J Gerber ESL University of Stellenbosch	CubeControl Design and Magnetometer Calibration
17:00	Mr C Groenewald ESL University of Stellenbosch	ADCS Demonstration with CubeComponents
17:10	SOAP BOX	5 minute presentations by individual students, or groups
17:20 - 18:00	Session 8: Regulatory matters	Chair: Prof Robert van Zyl
17:20	Ms Nomfuneko Majaja (guest speaker) Chief Director: Advanced Manufacturing Department of Trade and Industry	South African regulatory landscape for the development, launch and operations of a satellite
	SA Council for Space Affairs Prof Norman Fitz-Coy	Concluding remarks on sustainable use of space
17.4		LCONCIUGING TEMATKS ON SUSTAINABLE USE OT SBACE
17:45	Research Chair CPUT / University of Florida	

