FIFTH ANNUAL SATN CONFERENCE 2012

ICTs AND UNIVERSITIES: THE STRATEGIC ADVANTAGE

29 – 31 AUGUST 2012

HOSTED BY: POLYTECHNIC OF NAMIBIA, WINDHOEK, NAMIBIA

VENUE: SAFARI COURT HOTEL AND CONFERENCE CENTRE, WINDHOEK, NAMIBIA

WEDNESDAY EVENING, 29 AUGUST 2012

Welcome Cocktail Function

Venue: Safari Court Hotel and Conference Centre, Namib 1 & 2, Windhoek, Namibia

18:00 for 18:30	**COCKTAIL FUNCTION**
	Welcome address
	Professor Thandwa Mthembu Chairman of the SATN and Vice-Chancellor**:** Central University of Technology

THURSDAY, 30 AUGUST 2012

08:00 - 09:00	**Registration (Tea / Coffee)** **(Safari Hotel and Conference Centre, Foyer, Omatako Hall 1)**

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PLENARY SESSION
(Venue: Omatako Hall 1)

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	Chair: ***Professor Thandwa Mthembu*** Chairman of the SATN and Vice-Chancellor**:** Central University of Technology
9:00 - 09:15	## WELCOME ***Professor Tjama Tjivikua*** *Rector, Polytechnic of Namibia*
09:15 - 09:45	## CONFERENCE OPENING ***Hon. Minister Dr. Abraham Iyambo*** Minister of Education, Namibia
09:45 - 10:15	## THE CONFERENCE IN CONTEXT ***Professor Irene Moutlana*** Vice-Chancellor**:** Vaal University of Technology
10:15 – 10:30	***Discussion***

10:30 – 11:00	**Morning Tea**

	PLENARY SESSION **Venue: Omatako Hall 1**

11:00 - 12:45 **TEACHING AND LEARNING TECHNOLOGIES**

<u>Chair:</u>
Professor Thandwa Mthembu
Chairman of the SATN and Vice-Chancellor**:** Central University of Technology

11:00 – 11:30 **KEYNOTE ADDRESS**

Opening scholarship: opportunities and challenges for African universities

Prof Laura Czerniewicz
Director (seconded to OpenUCT Initiative)
University of Cape Town

Prof Czerniewicz is an educator, researcher and strategist, Associate Professor Laura Czerniewicz has worked in the field of educational technology at the University of Cape Town for over a decade, previously working in education and publishing in Zimbabwe and South Africa. The founding Director of the Centre for Educational Technology, she is currently the Director of the OpenUCT Initiative committed to sharing scholarly knowledge resources to all with internet connectivity and engaging globally with the open education agenda and scholarly communication issues from a Southern perspective. Her research interests include open education, digital scholarship, students' digitally-mediated practices, digital identities, scholarly communication, mobile learning and the field of learning technology as a scholarly domain

PARALLEL SESSION	
Teaching and Learning Technologies	**Teaching and Learning Technologies**
Venue: Omatako Hall 1	**Venue: Omatako Hall 2**
<u>Chair:</u> *Professor Thandwa Mthembu* Chairman of the SATN and Vice-Chancellor**:** Central University of Technology	<u>Chair:</u> *Professor Anthony Staak* Deputy Vice-Chancellor Cape Peninsula University of Technology
11:30 – 12:00 **An investigation into the use of video and primary content delivery medium for staff development of health profession educationalists** <u>Mr Nico Baird</u> Instructional Designer (Multimedia) Central University of Technology	**11:30 – 12:00** **Sustaining the leading edge in the integration of ICT into Higher Education** <u>Ms Nadia Rhodes</u> Senior Lecturer, Department of Commercial Accounting University of Johannesburg
12:00 – 12:30 **Determinants of Student Performance in an introductory Programming Course: The case of Students in the Polytechnic of Namibia** <u>Mr Marshal Gorejena</u> Lecturer, Department of Basic Computer Studies, School of IT Polytechnic of Namibia Windhoek, Namibia <u>Prof Ravi Nath</u> Department of Business Intelligence & Analytics College of Business Administration Creighton University <u>Prof H N. Muyingi</u> Associate Dean, School of IT Polytechnic of Namibia Windhoek, Namibia	**12:00 – 12:30** **Using Learn 2.0 Technologies for continued professional development** <u>Mrs Christa van Staden</u> <u>Prof Duan van der Westhuizen</u>
12:30 – 12:45 *Discussion*	**12:30 – 12:45** *Discussion*

PARALLEL SESSION

Teaching and Learning Technologies

Venue: Omatako Hall 3

<u>**Chair:**</u>
Professor Chris Jansen van Rensburg
Director
South African Technology Network

11:30 – 12:00   **Implementing e-learning against the odds – a success story for Namibia**

<u>Ms Leena Kloppers</u>
 Coordinator: Educational Technology, Centre for Open and Lifelong Learning
(COLL)
Polytechnic of Namibia
Windhoek, Namibia

12:00 – 12:15   *Discussion*

12:45 - 13:30   **Lunch**

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PLENARY SESSION
Venue: Omatako Hall 1

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13:30 - 14:45   **ADMINISTRATIVE AND MANAGEMENT TECHNOLOGIES**

<u>Chair:</u>
Professor Mashupye Kgaphola
Vice-Chancellor
Mangosuthu University of Technology

13:30 – 14:00   **KEYNOTE SPEAKER**

Title:

Mr Ketan Parbhoo
Dynamics Director
Microsoft, South Africa

Mr Parbhoo has a BCom from Wits and an Honours from UNISA. In December 2003 Ketan started at Microsoft as a Solution Sales Specialist for infrastructure. He moved into the Solution Sales Specialist for Information Worker products role after 6 months, where his team had great success with Sharepoint sales and was part of the IW sales team that won the best IW Sales team in the world award in 2005.

Ketan was then asked to head up the newly formed Provincial and Local government (PLG) sales team in Public Sector, with responsibility for both EPG and SMS&P Sales teams. During the first year in the new role, his team more than doubled the size of the business, resulting in the entire team going on the predecessor to the Circle of Excellence award in Monaco. The following year they continued to grow the business substantially and this time the team won the best PLG team worldwide award.

Ketan then took on the role of Public Sector Sales manager responsible for both Central and PLG for one year and was then offered the role of Mteto's business manager, when he joined Microsoft from IBM. As part of the special project, Ketan was asked to help develop a plan for addressing the ownership pillar of the BBBEE. Working with the SLT, his team then came up with a plan which resulted in the approval from Microsoft Corporation for the R500 million investment into the Equity Equivalent Programme. When the new role, of the Equity Equivalent Lead became available, Ketan applied to take on this special investment and was fortunate enough to be selected for it. He has been in this role since October 2009 which involved negotiating with government for the approval of the programme and then selecting the current 5 ISVs to be part of the programme, through an extensive public process. Ketan and his team spent at least six months planning and restructuring all of the ISVs to align their products to Microsoft's strategy and positioning them for growth. The team is working with the ISVs to develop next versions of their products and driving sales of their existing ones into their customers, helping to pull Microsoft revenue as a result. Ketan was very honored to be recognized for the work done on this programme and received the Circle of Excellence Gold Ward in 2011 and joint recipient of the Managing Directors Award 2011

In March 2012, Ketan was asked to take on the Dynamics Director position reporting into Managing Director. This position involved leading a team of professionals to drive their value proposition of ERP and CRM into the South African market.

PARALLEL SESSION

Administrative and Management Technologies

Venue: Omatako Hall 1

<u>Chair:</u>
Professor Mashupye Kgaphola
Vice-Chancellor
Mangosuthu University of Technology

14:00 – 14:30   **An investigation of IPv6 and IPv4 Network Security: a Polytechnic of Namibia case study**

     <u>Ms Mercy Bere</u>
Junior Lecturer, Computer Systems and Networks, School of IT
Polytechnic of Namibia
Windhoek, Namibia

14:30 – 14:45   *Discussion*

Administrative and Management Technologies

Venue: Omatako Hall 2

<u>Chair:</u>
Dr Tjama Tjivikua
Rector
Polytechnic of Namibia

14:00 – 14:30   **Towards A Holistic Service-Oriented Framework For Digital Forensic Investigation In The Cloud**

     <u>Dr Addmore Machanja</u>
Senior Lecturer, School of IT
Polytechnic of Namibia,
Windhoek, Namibia

     <u>Prof Jill Slay</u>
Executive Dean, School of IT
Polytechnic of Namibia,
Windhoek, Namibia

     <u>Dr Raymond Choo and Dr Ben Martini</u>
Forensic Computing Lab
University of South Australia

14:30 – 14:45   *Discussion*

Administrative and Management Technologies

Venue: Omatako Hall 3

<u>Chair:</u>
Professor Chris Jansen van Rensburg
Director
South African Technology Network

14:00 – 14:30   **An evaluation of ICT usage in the Southern African Higher Education Institutions through the HEQC's institutional Audit Reports.**

     <u>Ms Chichi Maimane</u>
Director, Centre for Curriculum Development
Central University of Technology, Free State

14:30 – 14:45   *Discussion*

14:45 - 15:15   **Afternoon Tea**

PLENARY SESSION
Venue: Omatako Hall 1

15:15 - 16:30   ## RESEARCH AND INNOVATION TECHNOLOGIES

<u>**Chair:**</u>

Professor Irene Moutlana
Vice-Chancellor
Vaal University of Technology

15:15 – 15:45   ## KEYNOTE ADDRESS

Speech technologies: Research and Innovation in action

Prof Etienne Barnard
Researcher: Multilingual Speech Technology Group (MuST)
Faculty of Economic Sciences and IT, Vaal Triangle Campus
North West University

Prof Etienne Barnard obtained his Ph. D. in Electrical and Computer Engineering from Carnegie Mellon University in 1989, writing his thesis on "Neural Networks for Scene Analysis". He has since then been active in research and development in pattern recognition and speech processing. He has held a number of academic positions, and has also worked in industry. Barnard has co-authored more than 200 refereed scientific publications, on topics including pattern recognition, neural networks, speech recognition and human-computer interaction. He holds a number of international patents in speech processing and is a past Associate Editor of the IEEE Transactions on Neural Networks. Barnard's research contributions have been recognized in various ways, including Google Research Award in 2009 and 2011; he is currently Research Professor at the North-West University, Vaal Triangle Campus.

15:45 – 16:15   **Mobile Platforms for Rural Innovation in Southern Africa**

<u>Dr Christian Toelg</u>
Director, Research and Development
Namibia Business and Innovation Centre
Polytechnic of Namibia
Windhoek, Namibia

<u>Dr Kasper Jensen</u>
Deputy Director/Associate Professor
Software Engineering Department, School of IT
Polytechnic of Namibia
Windhoek, Namibia

16:15 – 16:30   ***Discussion***

16:30 – 17:00	SHORT PRESENTATION BY SPONSORS (MORE INFORMATION TO FOLLOW)
18:00	*Transport from Safari Court Hotel and Conference Centre to Heja Game Lodge*
18:30 for 19:00	Dinner function at the Waterfront, Heja Game Lodge

FRIDAY, 31 AUGUST 2012

| 08:00 - 08:30 | **Arrival (Tea/Coffee)**
(Safari Hotel and Conference Centre, Foyer, Omatako Hall 1) |

PLENARY SESSION
Venue: Omatako Hall 1

08:30 – 08:45

ANNOUCEMENTS

Chair:
Professor Tjama Tjivikua
Rector
Polytechnic of Namibia

DEVELOPMENT OF A NATIONAL STRATEGY TO INCREASE ENGINEERING GRADUATE OUTPUT

Dr Oswald Franks Pr Eng
Chief Executive Officer
ECSA

08:45 – 09:45

SPECIAL GUEST LECTURE

CURIOSITY

Dr Jakob (Japie) van Zyl
An extraordinary professor at Stellenbosch University's Engineering Faculty
Associate Director: Project Formulation and Strategy at the National
Aeronautics and Space Administration (Nasa) Jet Propulsion Laboratory
(JPL)

Dr. Jakob van Zyl is the associate director of Project Formulation and Strategy at NASA's Jet Propulsion Laboratory. Formerly, he was the director for JPL's Astronomy and Physics Directorate. Van Zyl received an honors bachelor's degree cum laude in electronics engineering from the University of Stellenbosch, Stellenbosch, South Africa. He received both his master's and his doctorate in electrical engineering from Caltech. Van Zyl joined JPL in 1986 and held positions of increasing responsibility in the synthetic aperture radar program. In addition, he managed the Radar Science and Engineering Section, the Earth Science Flight Missions and Experiments Office, and the Focused Physical Oceanography and Solid Earth Program Office. He was appointed deputy director for the Astronomy and Physics Directorate in 2002. He has been an adjunct faculty member in the Mechanical and Aerospace Engineering Department, University of Southern California, where he taught the class "Remote Sensing Systems from Space" from 1997 to 2001. Since 2002, he has been teaching the class "Physics and Techniques of Remote Sensing" at Caltech.

09:45 – 10:00   *Discussion*

10:00 – 12:45   **ICTs IN PRACTICE: STUDENTS AND ACADEMICS AS AGENTS**

 Chair:
Professor Tjama Tjivikua
Rector
Polytechnic of Namibia

10:00 – 10:45   **KEYNOTE ADDRESS**

ICTs in Practice: Students and Academics as agents

Prof Shirley Alexander
 Deputy Vice-Chancellor and Vice- President (Teaching, Learning and Equity)
University of Technology, Sydney

Shirley Alexander is Professor of Learning Technologies at the University of Technology, Sydney (UTS) where she is currently Deputy Vice-Chancellor & Vice President (Teaching, Learning & Equity). Her long term research agenda has been on the effective use of information and communication technologies in learning in both higher education and the school sectors.

UTS is in the process of spending $1billion in a major campus redevelopment and Shirley is chairing the Learning Future project to ensure that the campus contains purpose-built learning spaces and technologies to meet tomorrow's learning needs. She is also chair of the Digital Education Advisory Committee reporting to the Federal Minister for Education. This committee has been asked to research, consult and write a strategy for Australian governments to deliver and leverage a highly innovative digital learning environment for Australia's students.

10:45 – 11:00   *Discussion*

11:00 – 11:30   **Morning Tea**

PARALLEL SESSION

ICTs in Practice: Students and Academics as Agents

Venue: Omatako Hall 1

<u>Chair:</u>
Professor Tjama Tjivikua
Rector
Polytechnic of Namibia

11:30 – 12:00 **The Durban University of Technology's Experiences of Open Educational Resources**

<u>Dr Alex van der Merwe</u>
Senior Lecturer, Economics
Durban University of Technology

12:00 – 12:30 **Information technology tools for teaching QSAR and vitamin chemistry at a South African University**

<u>Dr Roman Tandlich</u>
Lecturer, Faculty of Pharmacy
Rhodes University

12:30 – 12:45 *Discussion*

ICTs in Practice: Students and Academics as Agents

Venue: Omatako Hall 2

<u>Chair:</u>
Professor Anthony Staak
Deputy Vice-Chancellor
Cape Peninsula University of Technology

11:30 – 12:00 **An investigation into the use of Information Communication Technologies by students at the Central University of Technology (CUT), Free State**

<u>Mr Watson Manduna</u>
Computer Science Lecturer, Central University of Technology, Free State

12:00 – 12:30 **Factors Contributing to Technology-Enabled Distraction in the Classroom: A Case of College Students in Namibia**

<u>Prof H.N. Muyingi</u>
Associate Dean, School of IT, Polytechnic of Namibia
Windhoek, Namibia

<u>Prof Ravi Nath and</u>
<u>Dr Leida Chen</u>
Department of Business Intelligence & Analytics
College of Business Administration
Creighton University

12:30 – 12:45 *Discussion*

PLENARY SESSION **Venue: Omatako Hall 1**	
12:45 – 13:15	**CONFERENCE CLOSE** **AWARD FOR BEST PAPER** Open Session on what the papers, presentations and discussions suggest Conference Summary and Closing Remarks ***Professor Thandwa Mthembu*** Vice-Chancellor and Principal: Central University of Technology Chairman of the SATN
13:15 - 14:00	**Lunch**
14:00	***Transport from Safari Court Hotel and Conference Centre*** ***to Windhoek Hosea Kutako International Airport***