CURRICULUM VITAE

PERSONAL DETAILS

Name	Dr. Paulos Barton Timothy NYIRENDA
Sex	Male
Nationality	Malawian
Date of Birth	7 February 1958
Marital Status	Widower; three children

EDUCATIONAL QUALIFICATIONS

1986 - 1990   Ph.D. in Electrical Engineering (1991), University of New South Wales, Kensington, Sydney, Australia. Thesis: "Study of Complex Phase Modulation for Narrowband Communication", Supervisor: Prof. I. Korn.

1980 - 1982   Master of Science in Computer, Information and Control Engineering (1982), University of Michigan, Ann Arbor, U.S.A

1975 - 1979   Bachelor of Science with Distinction in Physics and Mathematics (1979), University of Malawi, Chancellor College, Zomba, Malawi

1972 - 1975   Malawi Certificate of Education (MCE), (1975), 8 points, Mzimba Secondary School, Mzimba, Malawi

1964 - 1972   Primary School Leaving Certificate (1972), Mphongo F.P. School, Mzimba, Malawi

WORK EXPERIENCE

1997 - present   National Coordinator, Malawi Sustainable Development Network Programme (SDNP), a fully licensed Internet service Provider. SDNP was initiated under UNDP support and executed by the National Research Council of Malawi to establish and enhance computer mediated communications in Malawi using the Internet with emphasis on sustainable development. SDNP was licensed in December 1998, became a fully operational Internet Service Provider (ISP) in July 1999 and fully sustainable from 2000. We designed and operationalised the SDNP Network entirely within Malawi SDNP. SDNP has now moved out of UNDP support and is run under the Malawi Government executed by the National Commission for Science and Technology (NCST) as a self sustaining entity.

2001 – present   Manager, Malawi Country Code Top Level Domain, .mw ccTLD. Initiated and negotiated the return home to Malawi of the .mw ccTLD from an operator in the US. Management of the regulatory and policy framework for the Malawi Country Code Top Level domain and management of the daily operation of the Malawi national Internet country code, registry and domain name services serving national and global community.

1994 - 1997   Head, Department of Physics, Chancellor College, University of Malawi.

Dr Paulos B Nyirenda CV

1993 - 1997	Developed and operationalised the first public e-mail system in Malawi called UNIMA under the University of Malawi. The system developed to be a fully self sustaining system.
1992 - present	Senior Lecturer in Physics, Chancellor College, University of Malawi, Zomba, Malawi. Teaching Physics and Electronics Courses, Research in Electrical Communications. (on leave of absence 1997-2000)
1982 - 1992	Lecturer in Physics, Physics Department, Chancellor College, University of Malawi, Zomba, Malawi.
1987 - 1990	Part Time Tutor in Electrical Engineering, University of New South Wales, Kensington, Sydney, Australia. (On Study Leave From University of Malawi). Tutoring Electrical Engineering Courses.
1979 - 1980	Staff Associate, Physics Department, Chancellor College, University of Malawi, Zomba, Malawi.

EXPERIENCE WITH COMPUTERS, NETWORKS, SYSTEMS AND SERVICES

Very wide, detailed knowledge, research and experience with computers, computer networks, information systems, hardware, software, programming, systems management and administration. Starting with basic undergraduate programming in the 1970's, then continuing with microprocessor machine and assembly languages, microcomputer, PC, main frame systems and higher level languages through the 1980's to theoretical, simulation and practical studies and applications of digital computer and communications systems through 1990's to present. Detailed theoretical, research and practical experience with modern dial-up, leased line, wireless, satellite and related computer and communication networks, systems and packages over a wide range of operating systems including windows, unix, linux, vms, mac-os, cisco-router-ios, mikrotik-router-ios on converging or integrated computer and communications systems including Internet systems with their governance aspects.

Moved into managerial position in 1997 as National Coordinator of Malawi SDNP which is a government programme as well as an Internet service provider in Malawi. Developed the regulatory and policy framework for the Malawi country code top level domain (.mw ccTLD) which we started managing in 2001. Through my involvement in ICANN and ccNSO, I was in the launching group of the ccNSO which developed the ICANN bylaw sections for the ccNSO. This, together with being on the Malawi delegation to the WSIS, accorded me additional international experience in Internet regulatory frameworks at a global level. I have been an ICANN ccNSO council member since then, representing the Africa Region.

MEMBERSHIPS AND ELECTED POSITIONS

International

2009 – present	Malawi Communications Regulatory Authority (MACRA) member of the Legal

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	Committee on Digital Migration, Broadcasting
2009 – present	Chair of Malawi Internet Service Providers Association
2008 – present	Trustee: Malawi National Banking Switch Centre – MALSWITCH
2006 – present	Company Director of the Africa Top Level Domain (AfTLD) Organisation
2006 – 2009	Vice-chair of Malawi Internet Service Providers Association - MISPA
2005 – present	Malawi National ICT Working Group Member - NICTWG
2003 – 2005	National IDESA Scientific Awards Selection Committee Member
2003 – present	ICANN ccNSO Council Elected Member representing the ICANN Africa Region
2002 – 2003	Pioneering Launching Group of the ICANN Country Code Top Level Domains Names Supporting Organisation (ccNSO)
1981 – 2000	Member, IEEE
1994 - present	Member, Internet Society – ISOC
1983	National Committee (Malawi) for the World Communications Year

University of Malawi and Colleges

1991 - 1997	Member of University of Malawi Senate
1994 - 1997	Member, Board of Malawi Journal of Science
1991 - 1992	Member of University of Malawi Library Committee
1985 - 1986	Member of Chancellor College Audio Visual Committee
1983 - 1985	Member of Chancellor College Housing Committee

University of New South Wales, Kensington, Sydney

1988 - 1989	Committee Member of the African Students Association; Students Union Liaison (1989), Treasurer (1988)

RESEARCH INTERESTS

1. Digital Modulation and Communications; design and analysis,
2. Internet Governance and Regulatory Frameworks
3. Mobile Digital Communications,
4. Coded Modulation,
5. Communication Electronics,
6. Computer Communication Networks,
7. Loudspeaker design, analysis and manufacture.

PUBLICATIONS

1. P.B.T. Nyirenda, "Electronic mail and the UNIMA Fidonet Network", *American Association for the Advancement of Science Notes*, Vol. 4 No.1, Washington DC, 1994.
2. P.B.T. Nyirenda, "Performance of no spectral hole tone calibrated PSK in satellite mobile channel", *IEEE Singapore International Conference on Networks/International Conference on Information Engineering '93*, Hyatt Regency Hotel, Singapore, 6-11 September, 1993.
3. P.B.T. Nyirenda,"Feedback coherent detection with narrowband receiver filters in the satellite mobile channel", Submitted to *IEEE Transactions on Vehicular Technology* (USA).
4. P.B.T. Nyirenda "Differential frequency detection of narrowband Manchester coded FSK" *Electronics Letters* (U.K.), vol 27, No 16, 1st August 1991, pp 1470-1471

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Dr Paulos B Nyirenda CV

5. P.B. Nyirenda and I. Korn, "Autocorrelation function and power spectral density of complex phase modulated signals derived from full response CPM", *IEEE Transactions on Communications* (U.S.A.), vol 30, No 10, October 1990, pp 1649-1652

6. P. Nyirenda and I. Korn, "Probability of error performance of binary suppressed sideband angle modulation", *Electronics Letters* (U.K.), vol 25, No 19, September 1989, pp 1312-1314

7. P.B.T. Nyirenda, "Effects of offset differential encoding on the power spectral density of angle modulated signals", *Proceedings of IREE (Australia) International Conference*, Melbourne, Australia, vol II, September 11-15 1989, pp 770-773

8. P. Nyirenda and I. Korn, "Multipath effects on some non-return-to-zero signals with coherent detection", *Proceedings of IREE (Australia) International Conference*, Sydney, Australia, vol I, September 14-18 1987, pp 38-41.

CONFERENCE PAPERS

9. P. Nyirenda, "Status of Internet Governance in Africa with special cases on Internet Resources", *Internet Governance Workshop,* NEPAD / Diplo Foundation, Pretoria, South Africa, 11-14 April, 2011

10. P. Nyirenda, "Role of Access in Country Code Top Level Domains Growth and Development", *UN Internet Governance Forum,* Hyderabad, India, 1-3 December, 2008

11. P. Nyirenda, "Country Code Top Level Domains in Africa, A Status Analysis", *Africa Top Level Domains Annual Conference*, Johannesburg, South Africa, 7-11 April, 2008

12. P. Nyirenda, "Cooperative Information Network (COPINE) Initiative for Malawi", *UN COPINE Conference*, Pretoria, South Africa, 25-27 September, 1996

13. P.B.T. Nyirenda, "Electronic mail and the UNIMA Fidonet Network", *INFORMANET Information Technology Senimar*, Bunda, Malawi, 15 July, 1994.

14. P.B.T. Nyirenda, "Establishment and performance of the Malawi fidonet network: The first half year", *Southern Africa Development Community (SADC) Management Information Systems Conference*, Lilongwe, Malawi, 22-28 May, 1994

15. P.B.T. Nyirenda, "Electronic communications for university research and development "*University of Malawi Research and Publications Committee (RPC) Conference on University Research and Development*, Mangochi, Malawi, 5-8 April, 1994.

16. P.B.T. Nyirenda, "Computer based communications in Malawi", *East and Southern Africa Network (ESANET) Evaluation Workshop*, Kampala, Uganda, 25-30 September, 1993.

17. P.B.T. Nyirenda, "Power spectral properties of digital suppressed sideband frequency modulation signals", *University of Malawi Research and Publications Committee (RPC) Conference on University Research and Development*, Chancellor College, Zomba, Malawi, 5-8 April, 1993.

18. P.B.T. Nyirenda, "A method for carrier tone insertion and recovery without a spectral hole for digital communication with coherent phase detection", *Association for Advancement of Science and Technology of Malawi (AASTOM) XIV Conference*, Kudya Discovery Lodge, Liwonde, Malawi, 13-16 January, 1993.

19. P.B.T. Nyirenda, "Efficient digital source coding for some written Malawian language sources for digital communication", *Association for Advancement of Science of Malawi (AASOM) Conference*, Chancellor College, Zomba, Malawi, December 19-20 1985.

CONSULTANCIES

Monitoring and Evaluation of Regional Communications Infrastructure Project in Malawi (RCIPMW), a World Bank Project executed by Privatization Commission, August 2011 to 2014.

Worldbank Telecommunications Research Project on: Privatisation of Telecommunications in Africa, Team Contracted by World Bank, 1 October 1999 to 30 June 2000 for a total of 16 working days.

Networking of UN Agencies in Lilongwe Malawi, Contracted by UNDP, Lilongwe, August, 1997

Sustainable Development Networking Programme (SDNP) in Malawi: feasibility study, Contracted by UNDP and Ministry of Research and Environmental Affairs (Malawi), 28 September - 12 August, 1995

INVITED LECTURES

"Electronic Networking for Low Cost Electronic Mail: Fidonet on UNIMA Case", *Malawi Institute of Management Course on Computers and Telecommunications,* Kwacha Conference Centre, Blantyre, Malawi, 6-7 October, 1994

OTHER NOTABLE RECENT WORKSHOPS, MEETINGS AND CONFERENCES ATTENDED

October 2012	ICANN Conference, Toronto, Canada
June 2012	ICANN Conference, Prague, Czech Republic
October 2011	ICANN Conference, Dakar, Senegal
August 2011	Africa Peering and Interconnection Forum (AfPIF), Accra, Ghana
June 2011	ICANN Conference, Singapore
April 2011	AFTLD Conference, Accra, Ghana
April 2011	NEPAD / Diplo Foundation Internet Governance Workshop, Pretoria, RSA
December 2010	ICANN Conference, Cartagena , Colombia
December 2010	AFRINIC Conference, Johannesburg, South Africa
June 2010	ICANN Conference, Brussels, Belgium
May 2010	AFRINIC Public Policy Conference, Kigali, Rwanda
March 2010	ICANN Conference, Nairobi, Kenya
March 2010	AFTLD Conference, Nairobi, Kenya
October 2009	ICANN Conference, Seoul, South Korea
June 2009	ICANN Conference, Sydney, Australia
April 2009	AFTLD Conference, Arusha, Tanzania
December 2008	UN Internet Governance Forum, Hyderabad, India
November 2008	ICANN Conference, Cairo, Egypt
September 2008	ISOC Advanced ccTLD Workshop, RIPE, Amsterdam, Netherlands
August 2008	CTO Rural Communications Conference, Lilongwe, Malawi
June 2008	ICANN Conference, Paris, France
April 2008	AFTLD Conference, Johannesburg, South Africa
November 2007	ICANN Conference, Los Angeles, USA
March 2007	ICANN Conference, Lisbon, Portugal
June 2007	ICANN Conference, San Juan, Puerto Rico
December 2006	ICANN Conference, Sao Paulo, Brazil

June 2006	ICANN Conference, Marrakech, Morocco
March 2006	ICANN Conference, Wellington, New Zealand
September 2005	African ICT Ministers Conference on Developing Africa's Common Position on Internet Governance, Dakar, Senegal
September 2005	WSIS Preparatory Committee – PREPCOM – Meeting, ITU, Geneva, Switzerland
July 2005	ICANN Conference, Luxembourg City, Luxembourg
April 2005	ICANN Conference Mar del Plata, Argentina
December 2004	ICANN Conference, Cape Town, South Africa
March 2004	ICANN Conference, Rome Italy
October 2003	ICANN Conference, Carthage, Tunisia
March 2003	ICANN Conference, Rio de Janeiro, Brazil
October 2002	ICANN Meeting, Shanghai, China
June 2002	ICANN Conference, Bucharest, Romania
March 2002	ICANN Meeting, Accra, Ghana
November 2001	ICANN Annual Conference, Marina del Rey, California, USA
May, 2000	African Network Operators Group (AFNOG) Conference, Cape Town, RSA
April, 2000	ECA Intergovernmental Committee of Experts (ICE) Workshop for SADC, Windhoek, Namibia
June, 1998	Conference on Global connectivity for Africa, ECA, Addis Ababa, Ethiopia
February, 1998	Southern Africa Regional Internet Seminar, UNDP, Victoria Falls, Zimbabwe
December, 1997	Joint Sustainable Development Networking Programme (SDNP) & Internet Initiative for Africa (IIA) Regional Workshop, Maputo, Mozambique
June, 1997	Internet Society Workshop, National Network Management Track, Kuala Lumpar, Malyasia
June, 1997	Internet Society International Conference, Kuala Lumpar, Malaysia
October 1996	Microprocessor-Based Real-Time Systems in Physics, International Centre for Theoretical Physics (ICTP) Trieste, Italy
September 1996	Cooperative Information Network (COPINE), UN Office for Outer Space Affairs, Pretoria, South Africa
September 1996	Workshop on Informatics, Africa Economic Research Consortium, Nairobi, Kenya
June, 1996	Internet Society Workshop on Services on TCP/IP Computer Networks, Montreal, Canada
June, 1996	Internet Society International Conference, Montreal, Canada
February, 1996	Expert Conference on Electronic Publishing in Science, UNESCO Headquarters, Paris, France
October, 1995	Workshop on Telematics, International Centre for Theoretical Physics (ICTP) Trieste, Italy
September, 1995	United Nations (UN) Symposium on Space Technology for Improving Life on Earth, Graz, Austria
June, 1995	Internet Society Workshop on TCP/IP Computer Networks, Honolulu, Hawaii, USA
June, 1995	Internet Society International Conference, Honolulu, Hawaii
May, 1995	Southern Africa Coordination Community (SADC) Workshop on Computers in Secondary Schools, Blantyre, Malawi
April, 1995	Africa Regional Symposium on Telematics for Development, Addis Ababa,

	Ethiopia
June, 1994	Internet Society Workshop on Dial-Up Computer Networks, Prague, Czech Republic
June, 1994	Internet Society International Conference (INET'94), Prague, Czech Republic
May, 1994	Southern Africa Development Community (SADC) Management Information Systems Conference, Lilongwe, Malawi
September, 1993	East and Southern Africa Network (ESANET) Evaluation Workshop, Kampala, Uganda
November, 1992	East and Southern Africa Network (ESANET) Workshop, Lusaka, Zambia
August, 1992	Workshop on Space Science and Applications for Developing Countries, Washington DC, USA
August, 1992	World Space Physics Congress, Washington DC, USA

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REFEREES

1. Principal Research Officer (Mr. A. Manda),
   National Research Council of Malawi
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   MALAWI.
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   University of Malawi,
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Dr. Paulos B.T. Nyirenda   **January, 2013**