



Division / Department / Faculty / Unit	Electrical Engineering
Job Designation	Professor & Head
Title (Mr, Ms, Mrs, Dr, Prof)	Prof
Initials	C
Preferred Name	Cuthbert Nyamupa
Surname	Nyamupangedengu
Roles & Responsibilities (Max 5 lines)	Head of Department
Professional Registration	SAIEE, IEEE, Cigre
High resolution photo – link provided	
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Modules	High Voltage Engineering 4 AD – EPHVE4A
Brief Bio	Currently a professor and head of the Electrical Engineering Department at Vaal University of Technology, South Africa. Prior to the current position, he has been an associate professor responsible for the high voltage research programme at Wits University. He continues as an honorary associate professor at Wits University. Cuthbert earned the electrical engineering Bachelor of Technology honours degree at the University of Zimbabwe in 1994. He was awarded the rest of his academic qualifications; PhD (Eng), MSc (Eng) (with distinction), PGDip(HE) (with distinction) at the University of the Witwatersrand. Cuthbert is an established researcher and was

	<p>awarded the NRF C2 rating in 2021. He has supervised to graduation more than 20 postgraduate students and published to-date 82 research articles in peer reviewed journals and conference proceedings.</p> <p>He is also an ETDp-SETA accredited assessor and facilitator attained in 2021. He served as an energy expert contributor to a study for the EWSETA undertaken by the University of Witwatersrand's Centre for Researching Education and Labour (Wits REAL). In 2018, he served as an energy expert consultant in a study for the Department of Public Enterprises undertaken by Wits Enterprises titled; Possible future energy markets in South Africa and the rest of Africa: Eskom's future business opportunities. Before moving into the academia, I spent 10 years working in various capacities up to Chief Engineer in a power utility.</p> <p>Currently is an elected council member of the SAIEE. He previous served the organisation as an inaugural committee member of the SAIEE Central Gauteng Center. From 2012 to 2018, he served as the Cigre Study Committee D1 representative of the Cigre Southern Africa National Committee.</p> <p>In addition to research and teaching expertise in the discipline of high voltage engineering, Cuthbert has a growing interest in engineering education research which was catalysed by completion of the PGDip(HE) at Wits University in 2022. A number of publications in that regard are in the pipeline.</p>
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SECTION: B

Research Fields	<p>High Voltage Engineering: Partial discharge in insulation, nanodielectrics</p> <p>Engineering education</p>
DHET Accredited Peer-reviewed journal articles	<ol style="list-style-type: none"> 1. M.K. Mahmood, C. Nyamupangedengu, C. Gomes and A. Smith, "Reducing Hydrophobic Characteristics of Kraft Paper Insulation by Reinforcing with Surface Modified Rutile-TO₂ Nanoparticles", in IEEE Access, vol. 10, pp. 102237-102246, 2022 doi: 10.1109/ACCESS.2022.3208596 2. Carl P. Wolmarans, Cuthbert Nyamupangedengu, Carina Schumann, Neil J. Coville and Marcelo M. F. Saba; The Influence of Diethylaniline and Toluene on the Streamer Propagation in Cyclohexane between a Point-Plane Gap under Positive Impulse Voltage Stress, Energies 2022, 15, 4861. https://doi.org/10.3390/en15134861 3. Mohammed Mahmood Katun, Rudo Kadzutu-Sithole, Nosipho Moloto, Cuthbert Nyamupangedengu, and Chandima Gomes; Improving Thermal Stability and Hydrophobicity of Rutile-TiO₂ Nanoparticles for Oil-Impregnated Paper Application, MDPI Energies 2021, 14, 7964. https://doi.org/10.3390/en14237964 4. T. Venge, C. Nyamupangedengu, "Analysis of Cavity PD Characteristics' Sensitivity to Changes in the Supply Voltage

Frequency”, *Energies*, 2021, 14, 478
<https://doi.org/10.3390/en14020478>

5. A.M., Hank, **C. Nyamupangedengu**, B. Mutuma, H. Li, N.J. Coville, K. Leifer, I. Sigalas, “Comparative Characterisation of CNS/Epoxy and BN/Epoxy Nanodielectrics Using Electrical Tree PD Measurements and Atomic Force Microscopy”. *International Journal of Engineering Research in Africa*, May, 2020, Vol. 48, pp. 24–37.
<https://doi.org/10.4028/www.scientific.net/jera.48.24>
6. S. Chimunda and **C. Nyamupangedengu**, “A reliability assessment model for an outdoor 88 kV XLPE cable termination’ *Journal of Electric Power Systems Research*, Vol. 177, December 2019.
7. **C. Nyamupangedengu**, “Guest Editorial’, *SAIEE Africa Research Journal*, Vol. 110, Issue 3, pp. 110-110, September 2019
8. E. N. N. Haikali and **C. Nyamupangedengu**, “Measured and simulated time-evolution PD characteristics of typical installation defects in MV XLPE cable terminations”, *SAIEE Africa Research Journal*, Vol. 110, Issue 3, pp. 136-144, September 2019.
9. A.M. Hank, **C. Nyamupangedengu** and I. Sigalas, “*Developing reproducible electrical tree-resistant epoxy nanodielectrics with improved thermal performance*”, *Cigre Science & Engineering Journal*, No. 11, pp. 44-53, June 2018.
10. J. Rickmann, D. Tabakovic, **C. Nyamupangedengu**, N. Parus, D. Wu and R. Diaz, “*Atmospheric and altitude correction methods for air gaps and clean insulators – corrections for short gaps under DC and application difficulties*”, *Cigre Science & Engineering Journal*, No. 11, pp 70-79, June 2018.
11. S. Kaaiye and **C. Nyamupangedengu**, “*Comparative study of AC and DC inclined plane tests on silicone rubber (SiR) insulation*”, *IET High Voltage*, Volume 2, Issue 2, p. 119 –128, 2017.
12. D. Fynnes-Clinton and **C. Nyamupangedengu**, “*Partial Discharge Characterization of Cross-Linked Polyethylene Medium Voltage Power Cable Termination Defects at Very Low Frequency (0.1 Hz) and Power Frequency Test Voltages*”, *IEEE Electrical Insulation Magazine*, Issue 3, July-August 2016.
13. M.M. Tshivhilinge and **C. Nyamupangedengu**, “*Effect of surface discharges on lightning impulse breakdown voltage of oil-impregnated pressboard in power transformers*”, *SAIEE Africa Research Journal*, Vol 107 (1), pp 38-44, March 2016.
14. **C. Nyamupangedengu** and D. Cornish “*Time evolution phenomena of electrical tree partial discharges in Magnesia, Silica and Alumina epoxy nanocomposites*”, *IEEE Transactions on Dielectrics and Electrical Insulation*, Vol. 23, No. 1, pp 85-94, February 2016.

	<p>15. C. Nyamupangedengu, M. Sotsaka, G. Mhlangeni, L. Ndlovhu, S. Munilal, “<i>Effects of temperature variations on wave propagation characteristics in power cables</i>”, SAIEE Africa Research Journal, Vol. 106, No. 1, March 2015.</p> <p>16. C. Nyamupangedengu, and I R Jandrell, “<i>Partial Discharge Spectral Response to Variations in the Supply Voltage Frequency</i>”, IEEE Transactions on Dielectrics and Electrical Insulation, Vol. 19, No. 2, pp 521-532, 2012.</p> <p>17. C. Nyamupangedengu, “Time-varying PD spectral characteristics in solid polymer insulation”, IET Journal of Science Measurement Technology, Vol. 6, No. 2, pp. 85-95, 2012</p> <p>18. C. Nyamupangedengu and IR Jandrell, “Influence of Supply Voltage Frequency and Magnitude on PD Pulse Parameters”, IEEE Transactions on Dielectrics and Electrical Insulation, Vol. 15, No. 6, pp 1590-1600, 2008 C. Gwandure and C Nyamupangedengu, “Employee involvement in power cable fault detection: impact on general health complaints”, Ergonomics SA, Vol. 19, No. 1, pp.3-13, 2007</p> <p>19. C. Gwandure and C Nyamupangedengu, “Employee involvement in power cable fault detection: impact on general health complaints”, Ergonomics SA, Vol. 19, No. 1, pp.3-13, 2007</p>
<p>Peer-reviewed Conference Proceedings (International & National)</p>	<p>1. S. de Abreu, N. Rungwandi and C. Nyamupangedengu, “Characterising the behaviour of suspended particles in liquid insulation using partial discharge testing: the case of mineral oil and ester fluids,” 2022 30th Southern African Universities Power Engineering Conference (SAUPEC), 2022, pp. 1-6, doi: 10.1109/SAUPEC55179.2022.9730652.</p> <p>2. I. Mvundlela, V. Gwadiso and C. Nyamupangedengu, “Partial Discharge Characterization of Electrical Trees in Epoxy Insulation,” 2022 30th Southern African Universities Power Engineering Conference (SAUPEC), 2022, pp. 1-6, doi: 10.1109/SAUPEC55179.2022.9730678.</p> <p>3. Isaac K Kyere, Cuthbert Nyamupangedengu, J J Walker, “Phase-Resolved Cavity Pd Pattern Time Evolution Characteristics in Polyethylene Insulation”, Proceedings of the 22nd International Symposium on High Voltage Engineering. ISH 2021. X'ian Jiaotong University, China, Nov 21-25, 2021</p> <p>4. B. A. Ndlovu, C. Nyamupangedengu, “Investigating the Effects of Creepage Discharges on the Breakdown Voltage of Natural Ester Oil-Impregnated Pressboard in Power Transformers”, Proceedings of the Southern African Universities Power Engineering Conference (SAUPEC2020), Cape Town, South Africa, January 2020.</p> <p>5. H. F. Mnisi, C. Nyamupangedengu, “Dissolved Gases Analysis (DGA) of canola-based ester oil under creepage discharges”, Proceedings of the Southern African Universities Power Engineering Conference (SAUPEC2020), Cape Town, South Africa, January 2020</p>

6. T Venge and **C. Nyamupangedengu**, "Influence of Supply Voltage Frequency on Cavity Partial Discharge Parameters: Simulation Results", Proceedings of the Southern African Universities Power Engineering Conference (SAUPEC2020), Cape Town, South Africa, January 2020

7. Sitole S., **Nyamupangedengu C.** (2020) Comparing Electrical Tree Inception in Epoxy and Polyethylene Using Fowler-Nordheim Based Model. In: Németh B. (eds) Proceedings of the 21st International Symposium on High Voltage Engineering. ISH 2019. Lecture Notes in Electrical Engineering, vol 599. Springer, Cham,

8. T. Venge and **C. Nyamupangedengu**, "A Review of Test Voltages Used in Partial Discharge Measurements," 2021 IEEE AFRICON, 2021, pp. 1-6, doi: 10.1109/AFRICON51333.2021.9570871.

9. Michiel Postema, Satyajit Phadke, Anthony Novell, Rustem Uzbekov, **Cuthbert Nyamupangedengu**, Mériém Anouti, Ayache Bouakaz," Ultrasonic identification technique in recycling of lithium-ion batteries", IEEE AFRICON, Accra Ghana 2019

10. B. A Ndlovu, **C. Nyamupangedengu**, "Effects of Surface Discharges on the Breakdown Voltage of Ester Oil-Impregnated Pressboard Insulation in Power Transformers", Proceedings of the 9th CIGRE Southern Africa Regional Conference 1st – 4th October 2019

11. H. F. Mnisi, **C. Nyamupangedengu**, "Investigation of the application of Dissolved Gas Analysis (DGA) in canola-based natural ester oil under arcing fault", Proceedings of the 9th CIGRE Southern Africa Regional Conference 1st – 4th October 2019.

12. K. Mosala, **C. Nyamupangedengu**, "A study of cavity partial discharge time-evolution characteristics in ester oil-impregnated transformer press-board insulation", Proceedings of the 9th CIGRE Southern Africa Regional Conference 1st – 4th October 2019.

13. S. Chimunda, **C. Nyamupangedengu**, P. O'Halloran, "Early detection of impending failure in HV cable terminations", Proceedings of the 27th Technical Convention of the Association of Municipal Power Utilities (AMEU), Cape Town, South Africa, October 2019, pp.95-97.

14. T. Venge and **C. Nyamupangedengu**, "Influence of Variable Frequency of the Applied Voltage on Cavity Partial Discharge Parameters: A Critical Review", Proceedings of the Southern African Universities Power Engineering Conference (SAUPEC2019), Bloemfontein, South Africa, 2019

15. I.K. Kyere, J.J. Walker and **C. Nyamupangedengu**, "A Study of Partial Discharge Behavior of Multiple Cavity Defects in Epoxy Insulation Material", International Conference on High Voltage Engineering (ICHVE2018), Athens, Greece, September 2018.

16. A.O. Adeniyi, J. Walker and **C. Nyamupangedengu**, "Procedure for Determining the Growth of Water Trees in Cable Samples during 500 Hz Accelerated Ageing", International Conference on High Voltage Engineering (ICHVE2018), Athens, Greece, September 2018.
17. A Hank and **C. Nyamupangedengu**, "A comparative study of AC and DC breakdown characteristics with dielectric spectroscopy of Hexagonal Boron Nitride and Carbon Nanosphere Epoxy Nanodielectrics", 2018 Cigre Paris Session, paper D1-204, Paris, August 2018
18. E. Haikali and **C. Nyamupangedengu**, "The unique PD signatures of artificial installation defects introduced in MV XLPE power cable terminations", Proceedings of the 26th Southern African Universities Power Engineering Conference SAUPEC 2018, paper 41, January 2018
19. S. Chimunda and **C. Nyamupangedengu** "A mathematical reliability model for an 88 kV XLPE cable termination", Proceedings of the 26th Southern African Universities Power Engineering Conference SAUPEC 2018, paper no. 65, January 2018.
20. J. Senoamadi, R. Mabodi and **C. Nyamupangedengu**, "The effect of supply voltage frequency on cavity partial discharge mechanisms", Proceedings of the 26th Southern African Universities Power Engineering Conference SAUPEC 2018, paper no. 116, January 2018.
21. S. Sitole, **C. Nyamupangedengu** and A. Hank, "Evaluation of AC and DC breakdown strength of carbon nanospheres/epoxy nanodielectrics", Proceedings of the 26th Southern African Universities Power Engineering Conference SAUPEC 2018, paper no. 125, January 2018.
22. S. Kaaiye and **C. Nyamupangedengu**, "Modelling insulator flashover mechanisms under hybrid electric stress - a literature review", Proceedings of the 26th Southern African Universities Power Engineering Conference SAUPEC 2018, paper no. 146, January 2018
23. A. Hank, **C. Nyamupangedengu** and I. Sigalas, "Developing reproducible electrical tree-resistance epoxy nanodielectric with improved thermal performance", Proceedings of the 8th Southern African Cigre Regional Conference, Cape Town, South Africa, October 2017.
24. P. Naidoo, **C. Nyamupangedengu** and I R Jandrell, "Air Breakdown Voltage Decreases as Altitude Increases-
A Review of HV Insulator Test Results from Chinese Experiments", Proceedings of the 8th Southern African Cigre Regional Conference, Cape Town, South Africa, October 2017.

25. D. R. Cornish, C. **Nyamupangedengu** and I. Sigalas, “*Effect of Boehmite Nanoparticles on the Dielectric Properties of Epoxy Resin*”, Proceedings of the 20th International Symposium on High Voltage Engineering (ISH 2017) - Buenos Aires, Argentina, 2017.
26. N. Msimango and C. **Nyamupangedengu** and N. West, “*DC and Impulse Breakdown Characteristics of Small Gaps in Engine Flue Gas*”, Proceedings of the 20th International Symposium on High Voltage Engineering (ISH 2017) - Buenos Aires, Argentina, 2017.
27. Johannes Rickmann, Dragan Tabakovic, **Cuthbert Nyamupangedengu**, Nishanth Parus, Dong Wu and Ricardo Diaz, “*Atmospheric and Altitude Correction Methods for Air Gaps and Clean Insulators – Corrections for Short Gaps Under DC and Application Difficulties – Part 1*”, Proceedings of the 20th International Symposium on High Voltage Engineering (ISH 2017) - Buenos Aires, Argentina, 2017.
28. E. Haikali and C. **Nyamupangedengu**, “*PD evolution of Artificial Defects Introduced in MV XLPE Power Cable Terminations - Preliminary Results*”, Proceedings of the 25th Southern African Universities Power Engineering Conference (SAUPEC), Stellenbosch University, 2017.
29. A.M. Hank and C. **Nyamupangedengu**, “*Electrical Tree Profiling in Solid Nanodielectrics using Atomic Force Microscopy*”, Proceedings of the 25th Southern African Universities Power Engineering Conference (SAUPEC), Stellenbosch University, 2017.
30. N. Msimango and C. **Nyamupangedengu**, “*Investigating the Effects of Engine Flue Gas on Dielectric Strength of Air Gaps*”, Proceedings of the 25th Southern African Universities Power Engineering Conference (SAUPEC), Stellenbosch University, 2017.
31. D.R. Cornish, C. **Nyamupangedengu** and I. Sigalas, “*Expanding Data Available from Partial Discharge Measurement Equipment*”, Proceedings of the 25th Southern African Universities Power Engineering Conference (SAUPEC), Stellenbosch University, 2017.
32. N.M. Maphundu, T.I. Rakoma, A.M. Hank and C. **Nyamupangedengu**, “*Investigating the Percolation Threshold of Carbon/epoxy Nanodielectrics using Dielectric Spectroscopy*”, Proceedings of the 25th Southern African Universities Power Engineering Conference (SAUPEC), Stellenbosch University, 2017.
33. N. Parus, N. Mahatho, T Govender and C. **Nyamupangedengu**, “*Breakdown Tests of Porcelain Post Insulators in Wet and Dry Conditions and Under Direct Current and Switching Impulse Stress*”, CIGRE Study Committee D1 Colloquium, Rio de Janeiro, Brazil, September 2015.

34. S.F. Kaaiye, **C. Nyamupangedengu**, I.R. Jandrell, "A comparative study of dc and ac inclined plane tests on silicone micro-composite insulators", Proceedings of the 19th International Symposium on High Voltage Engineering (ISH), Pilsen, The Czech Republic, August 2015.
35. T. Gora and **C. Nyamupangedengu** and I.R. Jandrell, "Investigating the effects of altitude (Air Density) on the HVDC breakdown voltage of Rod-Plane air gaps", Proceedings of the 19th International Symposium on High Voltage Engineering (ISH), Pilsen, The Czech Republic, August 2015.
36. D.A. Fynes-Clinton, D.R. Cornish and **C. Nyamupangedengu**, "Partial discharge patterns of typical installation defects in MV power cable terminations", Proceedings of the 19th International Symposium on High Voltage Engineering (ISH), Pilsen, The Czech Republic, August 2015.
37. D. R. Cornish, **C. Nyamupangedengu** and I. Sigalas, "Investigating the effects of nanoparticles on the electric field in dielectric material", Proceedings of the 19th International Symposium on High Voltage Engineering (ISH), Pilsen, The Czech Republic, August 2015.
38. A. M. Hank, D. R. Cornish, **C. Nyamupangedengu** and I. Sigalas, "Quantifying nanoparticle dispersion using rheological techniques in epoxy Resin", Proceedings of the 19th International Symposium on High Voltage Engineering (ISH), Pilsen, The Czech Republic, August 2015.
39. K. Mosito, M. Dlamini and **C. Nyamupangedengu**, "A comparative study of cavity partial discharge parameters at VLF and at 50 Hz test voltages", Proceedings of the 23rd South African Universities Power Engineering Conference (SAUPEC 2015), Johannesburg, 2015.
40. S. Chimunda, C. Chidzikwe, **C. Nyamupangedengu**, "A comparative study of surface partial discharge parameters at very low frequency (VLF) and power frequency test voltages", Proceedings of the 23rd South African Universities Power Engineering Conference (SAUPEC 2015), Johannesburg, 2015.
41. D. Cornish & **C. Nyamupangedengu**, "Time evolution phenomena of electrical tree partial discharges in 5 wt% MgO, Alumina & Silica epoxy nanocomposites", IEEE Annual Report Conference on Electrical Insulation & Dielectric Phenomena (CEIDP), October 2014, Des Moines, Iowa, USA.
42. A.A Al-Temeemy, G.R. Jones, M. Ragaa, **C. Nyamupangedengu**, A.G. Deakin & J.W. Spencer, "Analysis of partial discharge signals with higher dimension chromaticity", Proceedings of the 20th International Conference on Gas Discharges and their application, July 2014, Orléans France.
43. **C. Nyamupangedengu**, "Nanocomposite dielectrics; smart electrical insulation?", Proceedings of the 22nd Southern African Universities Power Engineering Conference (SAUPEC), Durban, 2014.

44. G. D. Mlangeni, M. Sotsaka and **C. Nyamupangedengu**, "*Effect of temperature variations on wave propagation characteristics in XLPE MV power cables*", Proceedings of the 22nd Southern African Universities Power Engineering Conference (SAUPEC), Durban, 2014.
45. D. Cornish & **C. Nyamupangedengu**, "*Characterising electrical trees in MgO/Epoxy nanocomposite*", Proceedings of the 22nd Southern African Universities Power Engineering Conference (SAUPEC), Durban, 2014.
46. D. Cornish & **C. Nyamupangedengu**, "*Electrical Tree Partial Discharge Characterisation in Epoxy Nanocomposite*", International Symposium on High Voltage Engineering (ISH2013), Seoul, South Korea 2013.
47. D. Cornish & **C. Nyamupangedengu**, "*An overview of the electrical treeing phenomena in solid dielectrics*", Proceedings of the 21st Southern African Universities Power Engineering Conference (SAUPEC), Potchefstroom, 2013.
48. **C. Nyamupangedengu**, R. Kotchetov, PHF Morshuis & JJ Smit, "*A study of electrical tree partial discharges in nanocomposite epoxy*", IEEE Annual Report Conference on Dielectrics and Electrical Insulation (CEIDP), Montreal Canada, 2012
49. **C. Nyamupangedengu** and J.J Walker, "*Temperature Dependency of Dielectric Loss Measurements at 0.1Hz in Medium Voltage Power Cables*", 8th International Conference on Insulated Power Cables (JiCABLE), Paris, 2011.
50. **C. Nyamupangedengu** and IR Jandrell, "*Evolution of Spectral Content of Partial Discharges in Solid Polymer Dielectrics*", XVII International Symposium on High Voltage Engineering, Hannover, Germany, 2011.
51. M.M.C. Mampane and **C. Nyamupangedengu**, "*Behaviour of PD in Impulse aged insulation: A theoretical study*", XVII International Symposium on High Voltage Engineering, Hannover, Germany, 2011.
52. G. Chitungo, **C. Nyamupangedengu** and J. Van Coller, "*Evaluation of the Use of Insulation Covers for Vulture Protection on Power Lines*", XVII International Symposium on High Voltage Engineering, Hannover, Germany, 2011.
53. M.M.C. Mampane and **C. Nyamupangedengu**, "*Behaviour of PDs in impulse aged polymer insulation – a theoretical preview*", Proceedings of the 20th Southern African Universities Power Engineering Conference (SAUPEC), Cape Town, 2011.

54. M.M. Tshivilinge, **C. Nyamupangedengu** and B van Jaarsveld, "A review of failure mechanisms of oil impregnated pressboard insulation in power transformers", Proceedings of the 20th Southern African Universities Power Engineering Conference (SAUPEC), Cape Town, 2011.
55. **C Nyamupangedengu** and IR Jandrell, "Evolution of PD Frequency Spectra of Typical Defects in Solid Dielectrics: Some preliminary results", Proceedings of the 19th Southern African Universities Power Engineering Conference (SAUPEC), paper G-4, pp 305-310, Johannesburg, 2010.
56. **C Nyamupangedengu**, IR Jandrell and JP Reynders, "A Comparative Study of PD Frequency Spectra of Typical Artificial Defects", International Symposium on High Voltage Engineering (ISH), paper D-8, Cape Town, 2009.
57. NU. Hlalele, MM Mampane and **C. Nyamupangedengu**, "Electrical tree initiation in solid dielectric medium voltage insulation", Proceedings of the 17th Southern African Power Engineering Conference (SAUPEC), January 2008.
58. **C Nyamupangedengu**, IR Jandrell, JP Reynders, "Optimisation of the Sensitivity and Bandwidth of Capacitive Coupler Sensors for Wideband PD Detection in XLPE Power Cables", International Symposium on High Voltage Engineering (ISH), Slovenia August 2007.
59. **C. Nyamupangedengu**, LP Luhlanga, T. Letlape, "Acoustic and HF detection of defects on porcelain pin insulators", Proceedings of the IEEE PES PowerAfrica 2007.
60. **C. Nyamupangedengu**, IR Jandrell "Sizing of Artificial Partial Discharge Defects for an Accelerated Ageing Test of Solid Dielectric Power Cable Insulation", Southern African Universities Power Engineering Conference (SAUPEC), Cape Town, South Africa, January 2007.
61. **C. Nyamupangedengu** & JP Reynders, "Frequency Characteristics of Partial Discharges in MV XLPE Power Cables",
Southern African Universities Power Engineering Conference (SAUPEC), Wits University, Johannesburg, South Africa, January 2005.
62. **C. Nyamupangedengu** & JP Reynders, "Time Dependency of Partial Discharge Pulses in XLPE MV Power Cables",
Southern African Universities Power Engineering Conference (SAUPEC), Stellenbosch South Africa, January 2004.
63. **C. Nyamupangedengu** & JP Reynders, "An Investigation into the Characteristics of a High Frequency Current Sensor with respect to Partial Discharge Detection in Power Cables", Southern African Universities Power Engineering Conference (SAUPEC), Pretoria South Africa, January 2003.

Book Chapters	None
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