

PERSONAL DETAILS

First Name: Clement
Surname: Matasane
Gender: Male
Date of Birth: 1973-05-02
Identity Number: 7305026231080
Nationality: South Africa
Languages: Sesotho, English, Zulu, Xhosa
Driver's License: Code 10

ORCID ID: - orcid.org/0000-0001-6407-6088

Profile - Clement Matasane	
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EDUCATIONAL DETAILS

Tertiary Education:

Institute: **Cape Peninsula University of Technology (CPUT), South Africa**
Current Registration: January 2019
Qualification: **Doctoral Degree (DEng): - Faculty of Engineering**

Institute: **Cape Peninsula University of Technology (CPUT), South Africa**
Year Completed: December 2002
Qualification: **Master's Degree of Technology (MTech): - Electrical & Electronic Engineering**

Year Completed: December 1998
Qualification: **Degree of Bachelor Technology (BTech): - Electrical Engineering**

Year Completed: December 1996
Qualifications: **National Diploma (ND) in Electrical Engineering**

Institution: **Lerotholi Polytechnic, Maseru, Lesotho**
Date: December 1993
Qualification: **Diploma Certificate in Electrical Engineering**

Secondary Education:

High School: **Sacred Heart High School, St Monica's, Leribe, Lesotho**
Year: 1990
Highest Standard: **Matric (COSC Certificate)**

Honours & Awards:

1. Consulting project for the "Wetland Assessment and Monitoring Platform for Transboundary River Basins in Southern Africa (WeMAST)," funded by the Southern African Service Centre for Climate Change and Adaptive Land Management (SASSCAL); under African Union Commission (AUC) for (25,000.00 Euros), March 2019 – December 2020.
2. IREX UNIVERSITY ADMINISTRATION SUPPORT PROGRAM (UASP) Award, Supported by the Carnegie Corporation of New York, USA 27 Jan – 10 Mar 2017.
3. European Union /African Caribbean Pacific (EU/ACP) Edulink (2013): - funded project for the "Sustainability of Renewable Energy in Southern Africa." (Euros435 830.00).
4. African-EU Renewable Energy Cooperation Programme (RECP), September 2013: - Awarded and sponsored to attend Mini-Grids Opportunities for Rural Development in Africa Workshop 3 – 5 September 2013, Arusha, Tanzania.
5. Regional Electricity Association of Southern Africa (RERA), May 2013: - Awarded and sponsored to attend the SADC/ RERA Renewable Energy Min-Grid Workshop 14 – 18 May 2013, Maseru, Lesotho.
6. African-EU Renewable Energy Cooperation Programme, EUEI/PDF, March 2013: - Sponsored to attend the SADC Centre for Renewable Energy and Energy Efficiency within in the Southern African region (SACREEE) Workshop 14 – 16 March 2013, Kempton Park, South Africa.
7. International Renewable Energy Agency (IRENA), November 2012: - Awarded and sponsored to attend the Regional Renewable Energy Forum (RREF) Workshop, Windhoek, Namibia.
8. African Renewable Energy Technology Platform (AFRETEP/EUEI) February 2012: - Awarded and sponsored to attend the Renewable Energy Workshop, Cape Town, South Africa.
9. Southern African Research & Innovation Management Association (SARIMA) Sept 2012: - Sponsored to present a conference paper, SARIMA Conference, 5 - 7 September 2012, Port Elizabeth, South Africa
10. University of Botswana Jan 2011 – Dec 2012: - Granted and awarded as Principal Investigator for project (P500 000.00 (BW Pulas)) on "Establishment of the University of Botswana Research Culture and Uptake".
11. Association of Commonwealth Universities (ACU), London, United Kingdom, March 2011: - Sponsored to present a conference paper, IST-Africa Conference, 11 – 13 May 2011, Gaborone, Botswana.

12. Japan International Cooperation Agency (JICA), Japan, March 2010: - Grant awarded (P1,2 000 000.00 (BW Pulas)) and as Principal Investigator for project "Development of a Monitoring and Control Systems for Real Equipment Systems with Integrated Solar Energy and Technology System for Rural Communities".
13. INORMS 2010: - Sponsored to present a conference paper, INORMS 2010 Conference, 11 – 15 April 2010, Cape Town, South Africa.
14. Japan Embassy, Botswana 2009: - Awarded to present a lecture by invitation in Kyoto University, Institute of Advanced Energy, Global COE Program, Sakyo-ku, Kyoto, Japan: "Design of regionally adaptable renewable energy systems in Botswana".
15. National Research Foundation (NRF/THRIP) Jan 2005 (R250 000.00): - Grant awarded and as Principal Investigator for project "Design, develop and manufacture a high speed CNC controller unit for stepper driven 2-axis machine with the potential of extending this to incorporate three axis machines".

Past Industry Involvement:

1. Served on Telkom Centre of Excellence (CoE) Steering Committee in University of Limpopo, Pietersburg; Alice, Fort Hare University; Grahams Town, Rhodes University; Port Elizabeth, NMMU - Nelson Mandela Metropolitan University; Cape Town, University of Cape Town; Pretoria, University of Pretoria, 2005 – 2007.
2. Served on Vibration Research & Testing Centre (VRTC) at University of KwaZulu-Natal (UKZN), Durban, South Africa, 2005 – 2007.
3. Served on Wine Industry Network of Expertise and Technology (WINETECH) Advisory Council, Cape Town, Stellenbosch, South Africa, 2005 – 2007.
4. Served on Steering Committee of the Centre for Optical Communications and Sensors, University of Johannesburg, South Africa, 2005 – 2007.
5. Currently an Industrial/Academic Consultant on Research Proposal Review at National Research Foundation (NRF) and Department of Science and Technology (DST), Pretoria, South Africa.
6. Research Consultant/ Representative on Renewable Energy Systems, Mini-Grids and Development for SADC, 2009 - 2013.

Professional Affiliations:

- Member of SAIMC (South African Institute of Instrumentation and Measurement Control), 2000
- Member of IPET (Institute of Professional Engineering Technologists), 2002
- Member of SAIEE (The South African Institute of Electrical Engineers), 2002
- Member of SAEE (South African Energy Efficiency), 2010
- Member of SAACE (South African Association of Consulting Engineers), 2012
- Scientific and Technical Committee & Editorial Review Board Member, World Academy of Science, Engineering and Technology (WASET), 2014
- Scientific and Technical Committee & Editorial Review Board Member, World Journal of Engineering and Physical Sciences (WJEPS), 2014
- Scientific Review and Editorial Board Member of Journal of Geological Resource and Engineering (JGRE), 2014
- The Asia-Pacific of Advanced Research in Electrical and Electronics Engineering Journal (AJAEEE) Editorial Board Member, 2016

Additional Courses:

- Grants Management Training Course (Aug 2012), Harvard School of Public Health (HSPH), Boston, USA
- Research Methods and Proposal Development (Apr 2011), University of Botswana, Botswana
- Research Ethics (Oct 2010), University of Botswana, Botswana
- Quality Auditing Course (ISO9001:2000; ISO14001:2004; OHSAS18001) (Aug 2006), Cape Town, South Africa
- Business Writing Course (July 2006), Pretoria, South Africa
- Postgraduate Supervision and Training Workshop (Nov 2002), Stellenbosch, South Africa
- INFOLIT Workshop, "Searching the WEB for Research" (Nov 2002), Stellenbosch, South Africa

Additional areas of Competence:

- Lecturing and Supervision
- Renewable Energy and Energy Efficiency
- Research, Coordination and Administration
- Project Management and Coordination
- Electrical, Process Instrumentation and Control Systems
- Digital and Electronics
- Computer and Communication Skills
- Online Research Information Management Systems (RIMS)
- Database and Web Content Management

Computer literacy:

- Development and Customisation of Online Scholarship and Research Information Management System (Altum, proposalCENTRAL, Converis)
- Microsoft Office Package
- Grant Management Tool Software (GMT) and Phoenix Granting Tool
- Electronic Grant and Submission Management (E-Grants) for European Union (CORDIS), National Institute of Health (NIH), grants.gov/ eRA Commons, Ecosystems Services for Poverty Alleviation (ESPA), The United States Agency for International Development (USAID), and Canadian Grand Challenges
- Research Information Management System (RIMS)
- Project Management System (PMBook)
- Windows NT/95/98/2000/XP/7/8 and all its supporting applications
- ORCAD or Pspice /Matlab /Simulink /LabView /FemLab
- Internet Web Search/ Internet Inactive/ Web-based Interactive and Virtual learning

EMPLOYMENT DETAILS

Company Name: **Cape Peninsula University of Technology (CPUT)
District – Six Campus**

Period: October 2017 – to Date

Designation: Research Manager

To manage and oversee the execution of the mandate of the Research Directorate, by: -

- Effective managing and executing the mandate of the Directorate under the guidance of the Director Research
- Ensure effective governance (policy directives, procedural & structural guidance) over functions and activities in the Directorate
- Oversee that sound research granting principles are followed and adhered to in accord with the full-cycle granting approach
- Oversee the implementation of financial accountability processes/ procedures that goes beyond compliance
- Oversee and ensure the effective management of the research publications portfolio, the research capacity development portfolio as well as the office of research integrity and ethics
- Ensure optimal use of technology systems, platforms and forums that facilitate the Directorate's work
- Competent supervision capacity
- Provide purposeful and appropriate activities to promote an integrated and seamless operational functioning within the directorate and through outreach to Faculties as well as across the rest of the institution

Company Name: **University of Kwa-Zulu Natal, Howard Campus
College of Health Sciences**

Period: June 2015 – to September 2017

Designation: Grants Coordinator

Duties: - To develop and maintain systematic procedures for alerting staff about research opportunities in a customized way that ensures that messages are sent to particular staff with specific interests; To provide technical and administrative support including ensuring that proposals align with university policies and donor interests to staff submitting proposals to external funding agencies; To co-facilitate in proposal development workshops for both staff and postgraduate students with the Dean of Research; To source research funding opportunities and grants for the academics and postgraduate students; To manage and monitoring the electronic online systems for the college; Manage College Research Grants and Scholarships for Postgraduates, Post-Doc's and Academics. Developing and implementing the College Online Scholarship Management for pre and post awards for the college. Provides pre-submission administrative review of proposals and compliance for approval and submissions through online research information system management systems and electronic grants management systems such as nrfonline system, US federal grants.gov, NIH, MRC, Grand Challenges and RIMS. I am the developer, customization and manage of the college proposalCENTRAL online management. I am currently the Grant Coordinator at the College of Health Sciences (CHS), University of Kwa-Zulu Natal (UKZN), South Africa. In February/March 2017, completed a six-weeks University Administration Support Programme (UASP) Research Fellowship at Ball State University, Muncie, and Indianapolis, USA; funded by the Carnegie Corporation of New York. I am currently

an awardee for the UASP Alumni Grant by International Research and Exchange Board (IREX), USA for "Implementation of the Online Scholarship System and Research Platforms to enhance research, capacity building and training project for the CHS."

Company Name: **University of Botswana, Gaborone, Botswana**

Period: January 2009 – to May 2013

Designation: **Assistant Director Research Funding**

Duties: - Managing the university research funding office (i.e. grants, financial process, agreements, contracts and consultancies). Acts as administrative resource to units developing grants and contract proposals and agreements; provides guidance and information to facilitate thorough and accurate completion/submission of all required documents; Provides pre-submission administrative review of proposals to verify compliance with sponsor, university, state and federal regulations, standards and requirements; and supports proposal transmittal activities, data entry and quality control functions for timely and accurate completion of tasks. Strategic planning, policies and guidelines development, Writing grant proposals and budgeting. Collate and prepare quarterly research funding performance reports for submission to University Research Committee and Deputy Vice Chancellor, Academic Affairs. To plan, organize, manage and coordinate the development of strong relationships and partnerships with funding organizations and industries. To foster a continued interest and participation in the activities of the University, and to alert staff on research and income generation opportunities; Under general facilitation and supervision, assists with day-to-day operations of proposal development and submission as well as pre-award activities; Manage and coordinate an electronic grant management system and online data repository, publication and conference management. Manage, plan, coordinate and facilitate the university research capacity training programmes/seminars/ conferences and workshops. Manage, monitor, coordinate and evaluate funded projects during their progress and on completion to measure its outputs and impact of their results and disseminations. Have extensive knowledge of computer software and packages for research and management, databases and analysis. Prepare, proof read and edit all outgoing correspondence e.g. funding letters, funding proposals, contracts and agreements, compliance and support/ commitment letters. Ensure that all reports are appropriately compiled and submitted on Research Information Management System (i.e. Converis) for review and that all projects, contracts, agreements and support letters are up to date through follow-up with relevant project leaders and managers relating to timeous management reporting for all projects. Provide regular updates on government policies and legislations and, ensure compliance with higher education, councils and donors.

Company Name: **Durban University of Technology, Durban, South Africa**

Period: January 2008 – December 2008

Designation: **Lecturer**

Duties: - Lecturing Design Projects III, Micro Design and Software System IV, Process and Control Systems IV; Digital Systems III
- Administration, Research and Supervision

Company Name: **National Research Foundation; Technology Human Resources Industry Programme (THRIP), Pretoria, South Africa**

Period: September 2005 – November 2007

Designation: **Professional /Project Coordinator**

Duties: - Planning and development for THRIP
- Effective implementation of various mechanisms of THRIP management;
- Assisting with finance and data management for budgeting
- Engaging with research community for improving THRIP participation
- Organising and facilitating of meetings, workshops, conferences, proposals and research-related initiatives
- Planning, coordinating, facilitating and chairing panel meetings for research funding applications and funding opportunities
- Report writing, minute taking; and assisting in the grant award decision Making
- Preparation and compilation of Annual Reports and Impact Reports data and statistics
- Prepare, proof read and edit all outgoing correspondence before submitting to Executive Director for signatures; letters, funding outcomes, invitations
- Project management of institutional research programmes and individual Projects
- Conducting Research Technical Audits and Evaluations of funded industrial and institutional projects

- Maintaining accurate databases and contact records for industries and Institutions as the point of contact to all the local, national and international partners
- Marketing THRIP in local, national and international research industries, centers, institutes and universities

Company Name: **University Of Johannesburg**
Doornfontein, Johannesburg, South Africa
 Period: June 2003 – August 2005
 Designation: **Lecturer**
Duties: - Lecturing Process & Control Systems III, Electrical Engineering I, Digital Systems III
 - Supervising and mentoring BTech (Bachelor degree) Students
 - Project Leader for High Speed CNC Controller Project funded by (NRF/THRIP in 2005)

Company Name: **Cape Peninsula University of Technology**
Cape Town, South Africa
 Duration: January 1996 – June 2003

Period: January 2001 – May 2003
 Designation: **Lecturer**
Duties: - Lecturing Computer Skills, Digital Systems, Design Project,
 - Practical training on Process & Control Systems designs
 - Design and testing of Power electronics devices
 - Supervising NDip and BTech (Bachelor degree) students on their projects

Period: January 1999 – December 2000
 Designation: **Research Administrator (Faculty of Engineering)**
Duties: - Organising research seminars, conferences, workshops, and Open Days
 - Promoting research activities within the institution, industrial sectors locally, nationally and internationally
 - Manage, plan and coordinate meetings of the Faculty Advisory Committee and Departmental Steering Committee
 - Writing Faculty reports and minutes
 - Ensure all faculty projects and contracts are up to date through follow-up with relevant principal investigators and managers relating to timeous management reporting for all projects
 - The developing and managing of student exchange programmes
 - The continual evaluation of research activities
 - The editor of the Research Probe Newsletter

Period: January 1996 – December 1997
 Designation: **Laboratory Technician**
Duties: - Fault findings and repairing of electronic laboratory equipment
 - Maintenance of power and electrical equipment
 - Software and hardware installation for laboratories usage
 - Computer repairs, building and assembly
 - Configuration of Novel Network response and applications in laboratories
 - Co-ordinate students during practical sessions and design
 - Set up laboratory and field equipment to assist Research workers

Passed Projects Involved

Past Research Laboratory Funded Projects (as the Project Leader): -

1. Design, develop and manufacture a high-speed CNC controller unit for stepper driven 2-axis machine with the potential of extending this to incorporate three axis machines (2005)
2. A Computer-Based Model and Analysis of the Heating and Microwave Power Profile for an Optical Fibre (2005)
3. Framework for a Virtual Opto-electronics Technology Laboratory for Undergraduate Engineering Education (2003)

4. Electronic Interfacing for Linear Induction Motor (2003)
5. Monitoring of Microwave Power Measurement using Fibre Optics within Microwave Cavity (2002)
6. Multi Element Optical Fibre Sensor Telemetry and Control Using the Internet (2000)
7. Remote Data Acquisition for Laboratory Temperature Monitor (1998)

Past Research Funded Projects Involved (as Principal Investigator): -

1. Development of Solar PAYGO Project in Mutale District Municipality, Thohoyandou, Limpopo Province, South Africa. Project funded by Azuri Technologies, UK, London (2015)
2. Southern African Sustainable Energy Initiative: - awarded by EDULINK, ACP/EU (2013)
3. Coordinator for Regional Renewable Energy Forum (RREF) for DUT, PE, Namibia, Botswana and Lesotho (2012/2013).
4. Development of a Monitoring and Control Systems for Real Equipment Systems with Integrated Solar Energy and Technology System for Rural Communities: - funded by JICA, Japan (2010)
5. National Research Foundation (NRF/THRIP) Jan 2005 (R250 000.00): - Grant awarded and as Principal Investigator for project "Design, develop and manufacture a high-speed CNC controller unit for stepper driven 2-axis machine with the potential of extending this to incorporate three axis machines"
6. Cape Peninsula University of Technology (CPUT) Jan 2000 - 2002: - Funded for Master's Degree project on "Monitoring of Microwave Power Measurement using Fibre Optics Sensors within Microwave Cavities"

INPUTS /OUTPUTS

Journals Published: -

1. Clement Matasane and Mohamed Tariq Kahn, "Assessment of Wind Energy Potentials for Rural Energy Deployment in the Vhembe District, Limpopo Province," – under review
2. Clement Matasane, MTE Khan, "Solar Energy Assessment and Estimation Using Climate Data and Local Environmental Conditions," Special Issue – under review
3. EngineerIT, Journal for the Electronics, Computers, & ICT in Engineering 2008: "Measurement of thermal and transient responses in optical fibre," CM Matasane, Durban University of Technology; Prof MTE Kahn, Cape Peninsula University of Technology, South Africa and Bertil Waldén, Comsol, Sweden. July 2008 Issue.
4. QUANTUM, Journal for the Electronics Professional 2004: "Review of Microwave Technology in Power Measurements for Laboratory and Commercial Work – Trace of Definitions and Relationship Towards Use of Fiber Optics to Measure Microwave Power," C. M. Matasane, Witwatersrand Technikon, Gauteng, South Africa and MTE Kahn, Peninsula Technikon, Bellville, South Africa. March 2004 Issue.
5. Journal of Electricity and Control, South Africa, September 1999 Issue, pp31 - pp32: "Assessment of Current Commercial Microwave Ovens Operation with A View to Improve Power Measurement Design," M. Matasane and MTE Khan, Department of Electrical Engineering.
6. Research Probe, Research Review Newsletter of the Faculty of Engineering, Peninsula Technikon, Vol. 4, No. 2, September 1999: "Measurement by Light – A New Paradigm in Instrumentation Development," M. Matasane, and MTE Khan, Department of Electrical Engineering.

Conference Presentations: -

1. C. Matasane, MTE Kahn, "Solar Radiation Estimations Using the Territorial Climatological Measurements in Vhembe District, Limpopo Province for Solar Energy Potential Estimation and Use," in 2019 IEEE Power Africa Conf.: Abuja, Nigeria, 2019. <https://doi.org/10.1109/PowerAfrica.2019.8928806>
2. INORMS 2018 Conference, 4 – 7 June 2018, Edinburgh, Scotland: "Essentials of Research Governance and Performance at Cape Peninsula University of Technology, South Africa," Clement Matasane and Dina Burger, Cape Peninsula University of Technology (CPUT), District-Six Campus, Cape Town, South Africa.
3. 12th International Conference on Energy, Environment, Ecosystems and Sustainable Development, Venice, Italy: - January 29-31, 2016. "Role of Universities on Urban and Rural Economic Impacts on Community Development"- C. Matasane, J. Zaaiman.
4. 1st Univen-WSU 2015 International Research Conference, 2 – 4 September 015, East London, South Africa: Assessment of Renewable Energy Potentials in Vhembe District Municipality, Limpopo Province, South Africa Using GIS as a Decision Support System, *Clement Matasane, Department of Hydrology, School of Environmental Sciences, University of Venda, Private Bag X5050, Thohoyandou, 0950, South Africa (e-mail: mmatasane@yahoo.com); Prof. J. Odiyo, Department of Hydrology, School of Environmental Sciences, University of Venda, Private Bag X5050, Thohoyandou, 0950, South Africa (e-mail: john.odiyo@univen.ac.za); R. Naidoo, Institute for Open and Distance Learning, College of Graduate Studies, University of South Africa, Pretoria, South Africa (e-mail: naidoo@unisa.ac.za).

5. DRMC 2015 Conference, 2 – 3 March 2015, Polokwane, South Africa: Use of Solar Photovoltaic (PV) Energy Systems as an Option for the Sustainable Development and Energy Savings, *Clement Matasane, Department of Hydrology, School of Environmental Sciences, University of Venda, Private Bag X5050, Thohoyandou, 0950, South Africa (e-mail: mmatasane@yahoo.com); Prof. J. Odiyo, Department of Hydrology, School of Environmental Sciences, University of Venda, Private Bag X5050, Thohoyandou, 0950, South Africa (e-mail:- john.odiyo@univen.ac.za); R. Naidoo, Institute for Open and Distance Learning, College of Graduate Studies, University of South Africa, Pretoria, South Africa (e-mail: naidoo@unisa.ac.za).
6. ICSEC 2014 Conference, 6 – 7 November 2014, Cape Town, South Africa: "Modelling the Photovoltaic Pump Output Using Empirical Data from Local Conditions in the Vhembe District," C. Matasane, C. Dwarika, R Naidoo; University of Venda, Private Bag X5050, Thohoyandou, 0950, South Africa (phone: +27 (0)78 737 4299; fax: +27 (0)86 502 7299; e-mail: mmatasane@yahoo.com); Mangosutho University of Technology, KwaZulu Natal, Durban, 4000, South Africa (e-mail: shan@mut.ac.za); Institute for Open and Distance Learning, College of Graduate Studies, University of South Africa, Pretoria, South Africa (e-mail: naidoo@unisa.ac.za).
7. CESE2014 Conference, 12 – 16 October 2014, Johor Bahru, Malaysia: "Feasibility of solar powered groundwater pumping system for domestic use in Limpopo Province, Thohoyandou, South Africa," Clement Matasane, Ramo Richard Naidoo; School of Environmental Sciences, University of Venda, Thohoyandou 0950, South Africa (E-mail: mmatasane@yahoo.com; mmatasane@gmail.com); Institute for Open and Distance Learning, College of Graduate studies, University of South Africa, South Africa, (E-mail:naidor@unisa.ac.za; rnaidoo245@gmail.com)
8. SARIMA Conference, 5 - 7 September 2012, Port Elizabeth, South Africa: "Use of Information Management and Digital Repository System in Improving and Enhancing Research at University of Botswana: - Effort in Support of the Next Generation of Researchers," Clement MATASANE¹, MBM SEKHWELA²; University of Botswana, Office of Research and Development. Botswana.
9. IST-Africa Conference, 11 – 13 May 2011, Gaborone, Botswana: "University Research Funding and Information Management System - Improving and Enhancing Research at University of Botswana," Mr Clement Matasane; Dr MBM Sekhwela; Dr J Jackson-Malete, Office of Research & Development, University of Botswana, Gaborone, Botswana.
10. INORMS 2010 Conference, 11 – 15 April 2010, Cape Town, South Africa: "University of Botswana Research Management System and Digital Repository: Solutions for managing research and innovation information," Mr Clement Matasane; Dr MBM Sekhwela; Dr J Jackson-Malete, Office of Research & Development, University of Botswana, Gaborone, Botswana.
11. ASEE/AaeE 4th Global Colloquium 2005 Conference, Sydney, Australia, 24 – 29 September 2005: "Technology Implementation in Learning and Teaching: - Towards an Effective Strategy for Virtual Laboratory Learning," Clement Matasane and Mohamed Toriq Khan, University of Johannesburg, Doornfontein, Gauteng, South Africa, Cape Peninsula University of Technology, Bellville, Cape Town, South Africa.
12. Domestic Use Of Energy Conference 2005 (DUE 2005), 28 – 31 Mar 2005, Cape Town, South Africa: "A Computer-Based Model And Analysis Of The Heating And Microwave Power Profile For An Optical Fiber," C. M. Matasane, University Of Johannesburg, Doornfontein, South Africa, and Prof. MTE Kahn, Cape Peninsula University Of Technology, Bellville, South Africa.
13. 1st African Control Conference, AFCON 2003, 3 – 5 Dec 2003, Cape Town, South Africa. "Multi Element Optical Fibre Sensor Telemetry And Control Using The Internet," C.M. Matasane, Witwatersrand Technikon, Gauteng, South Africa and MTE Kahn, Peninsula Technikon, Bellville, South Africa.
14. Symposium On Energy Technology Modelling, Simulation And Applications (ETMSA), 26 – 27 May 2003, Cape Town, South Africa: "Framework for a Virtual Opto-electronics Technology Laboratory for Undergraduate Engineering Education," M C Matasane, Witwatersrand Technikon, Gauteng, South Africa and MTE Kahn, Peninsula Technikon, Bellville, South Africa.
15. 5th UICEE Conference, 6 – 9 Feb 2002, Chennai, India. "Monitoring of microwave power measurements in microwave cavities using optical techniques," M. C. Matasane & MTE Khan, Peninsula Technikon, Bellville, South Africa.
16. SATCAM 2000 Conference (SATNAC COMSIC, AP/BEM MTT/EMC), Somerset West - Cape Town, 10 - 13 September 2000: "Microwave Measurement by Light: - A New Paradigm in Instrumentation Development," M. Matasane and MTE Khan, Department of Electrical Engineering.

Presentation by Invitation: -

1. Facilitating and Coordinating the African Union (AU), Global Monitoring for Environment and Security (GMES), and Africa Grant Writing Workshop "Conceptualisation of Assessment and Monitoring of Wetlands Services Application within the region," Gaborone 19 – 23 July 2017, invited and organised by The Southern African Science Service Centre for Climate Change and Adaptive Land Management (SASSCAL), SADC Regional Office.
2. Invitation for SASSCAL Grant Writing of the African Union (AU), Global Monitoring for Environment and Security (GMES), and Africa "Actual Grant Writing and Submission of the Wetlands Monitoring and Assessment Service for Transboundary Basins in Southern Africa – WeMAST," Gaborone 4 – 11 August 2017.

3. Research Funding and ISK Seminar/ Workshop, Gaborone, Botswana 15th – 19th March 2010, "Effects of Funding on Research Outputs, C M Matasane" organized by Botswana's Ministry of Communications, Science and Technology (now Ministry of Infrastructure, Science and Technology) and South Africa's Department of Science and Technology.
4. Kyoto University, institute of Advanced Energy, Global COE Program, 26 Oct – 1 Nov 2009, Sakyo-ku, Kyoto, Japan: "Design of regionally adaptable energy systems in Botswana - Development of a Monitoring and Control Systems for Real Equipment Systems with Integrated Solar Energy and Technology System for Rural Communities," Clement Matasane, Office of Research & Development, University of Botswana, Gaborone, Botswana.

REFERENCES

<p>Prof Mohamed Tariq Kahn Director – Energy Institute; PhD, Supervisor Electrical and Electronic Engineering Department Cape Peninsula University of Technology, Symphony Way, Bellville, Cape Town, 7535 Tel; - 021 959 6246 Email: - KhanT@cput.ac.za; prof.tariq.kahn@gmail.com</p>	<p>Prof Moses.J. Chimbari College Dean of Research College of Health Sciences University of KwaZulu-Natal George Campbell Building King George V Avenue, Durban, KZN, South Africa Tel (office) :+27312604833 Cell: +27605086969 Email: chimbari@ukzn.ac.za; mjchimbari@gmail.com</p>	<p>Dr Paul Ndebele, Director, Research Integrity, Compliance and Ethics Regulation Specialist Office of Research Excellence, The George Washington University, 722 950 New Hampshire Avenue, USA Tel: - 2029941271 Email pndebele@gwu.edu; ndebele@gmail.com; pndexas@yahoo.com</p>	<p>Dr Alphonsus Neba Programme Manager, Alliance for Accelerating Excellence in Science in Africa (AESA) African Academy of Sciences (AAS), Nairobi, Kenya Tel :- +254 712 061520 Email : - alneba@hotmail.com; a.neba@aasciences.ac.ke</p>
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