

**Senior Prof. Priscilla Gloria Lorraine Baker
nee Robertson (PhD)**

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and
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Current Positions:

Senior Professor with SARChI: (Analytical Systems and Processes for Priority and Emerging Contaminants), Department of Chemistry, University of the Western Cape (2018-)

Director, Nano-Micro Manufacturing Facility (NMMF) – Electrochemical Sensors Node, University of the Western Cape, South Africa (2022-)

Co-director of SenergyLab International Associated Laboratory, University of the Western Cape, South Africa and CY Cergy Paris University, France (2020-)

Co-director of SensorLab Research Group, Department of Chemistry, University of the Western Cape, South Africa (2004-)

Acting Deputy Vice Chancellor, Research and Innovation, University of the Western Cape (February 2026-)

Citation: Priscilla G L Baker

Prof Priscilla Baker is the Winner of the 2025 L'Oreal-UNESCO for Women in Science International Awards for Africa and the Arab States. She is also the Laureate of the 2014 South African Women in Science Awards (SAWISA) in the Distinguished Woman Researcher Category for Physical and Engineering Sciences. Baker is a Fellow of the African Academy of Science (FAAS, elected 2018) and a Fellow of the Royal Society of Chemistry (FRSC, elected 2019).

Prof Baker is a Senior Professor of Chemistry at the University of the Western Cape (UWC), a National Research Foundation (NRF) B-rated Scientist and the South African Research Chair Initiative (SARChI) Chair for Analytical Systems and Processes for Priority and Emerging Contaminants (ASPPEC). She is the Director of the Electrochemical Sensors Node (at UWC) of the Nano-Micro Manufacturing Facility (NMMF), which is funded by the Department of Science, Technology and Innovation (DSTI). She is the Co-Director of the first International Associated Laboratory (LIA) between France and South Africa; and the Co-Director of the SensorLab (UWC Sensor Laboratories) Research Centre since 2004. Baker was elected the Regional Representative for South Africa and Africa of the International Society of Electrochemistry (ISE, 2017-2021). She served as a Councillor of the South African Chemical Institute (SACI, 2006-2018) and the Chairperson of the Electrochemical Division of SACI. In 2020, Baker was awarded a Fellow-in-Residence Senior Fellowship under the Paris Seine Initiative (PSI) for Excellence Programme, hosted at the CY Cergy Paris University, France.

Prof Priscilla Baker served as the Director of the South African Systems Analysis Centre (SASAC) and a member of the SASAC Executive from 2017 to 2019. SASAC is a DSTI-NRF multi-year initiative coordinated by UWC, in partnership the University of Limpopo, the University of Witwatersrand and Stellenbosch University. The programme aimed at providing multi-level systems analysis capacity training for up to 60 PhD candidates. Baker was instrumental in advancing cross disciplinary research understanding and promoting engagement in systems analysis in South Africa and Africa, in collaboration with the International Institute for Applied Systems Analysis (IIASA, Austria) - the global seat of systems analysis.

The primary focus of Baker's research is the integrated application of analytical tools and technology in the development of highly sensitive early warning systems (i.e. trace-level detection and measurement) for critical contaminants. The systems are primarily electrochemically driven but draw on a wide range of supporting analytical techniques and energy sources for feasible outcomes. She has 158 peer-reviewed publications; Scopus H-index (33) and total citation (3437); and Google Scholar H-index (39), i10 (102) and total citation (4981). She has trained over 33 PhD and 26 MSc graduates, all of whom occupy prominent positions in the public and private sectors. She serves as a Chemistry Subject Editor for the South African Journal of Science, as well as a Review Editor in the Editorial Boards of Frontiers in Chemistry - Analytical Chemistry Section and Critical Reviews in Biomedical Engineering. She has served as Guest Editor for *Electrochimica Acta* (2010), *Analytical Letters* (2011) and the *Journal of Nano Research* (2016). She is well recognised internationally as a scientific leader and knowledge advocate for science and technology.

She is active in the advancement of public understanding and implementation of electro-analytical chemistry through community engagements and media interaction on both radio and television, attested to by her media footprint on Wikipedia, eNCA news, YouTube, LinkedIn and the printed media. She is well recognised internationally as a scientific leader, prolific author and knowledge advocate for science and technology.

Academic Qualifications

PhD Chemistry, University of Stellenbosch, 2004

MSc Chemistry, University of the Western Cape, 1997

BSc Honours, University of the Western Cape, 1996

BSc, University of Cape Town, 1990

Postgraduate supervision record:

Period	Graduated	
	PhD	MSc
2000-2025	40	52

Scientific networks and media

ORCID: <http://orcid.org/0000-0002-8878-267>

Google Scholar: <https://scholar.google.com/citations?user=9X3MY-sAAAAJ&hl=en>

ResearchGate: <https://www.researchgate.net/profile/Priscilla-Baker-2>

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=14014402900>

YouTube: (Going Green) <https://www.youtube.com/watch?v=0MdcYQni6-w>

(L'Oreal International award 2025)

<https://www.youtube.com/live/qk4743UdhRc>

<https://x.com/UNESCO/status/1936272872672256147>

LinkedIn: (Community engagement)

<https://www.linkedin.com/in/priscillabaker/?originalSubdomain=za>

Wikipedia: https://en.wikipedia.org/wiki/Priscilla_Baker

Awards and recognition

2025	L'Oreal - UNESCO For Women in Science International Awards - <i>Laureate for Africa and the Arab States</i>
2025	Confirmed Fellow of the Royal Society of SA,
2024 – present	B-rated researcher , NRF B-rated researcher in Analytical Chemistry, one of 4 rated researchers in this focus area
2024	Higher Education Women Leaders Awards (HERS-SA), Winner – Women in STEM
2023	Harry Oppenheimer Fellowship , University of the Western Cape nominee
2023 – present	Member , Board of Directors of CYAS Institute for Advanced Studies, CY Cergy Paris Université
2020 – 2024	Co-director , International Associated Laboratory – SENERGYLAB (France/South Africa international partnership) ^[1]
2022 – 2024	Director , Department of Science and Innovation, Nano- micro fabrication facility (NMMF), sensors node
2020	Fellow in Residence , Paris-Seine Initiative for Excellence, 1 March 2020 - 30 June 2020
2020	TI-COAST, Advancing Dutch Analytical Sciences: FAST-est 2020 Electronic Science Talks - <i>Subject Expert</i>: 'Nanostructured semi-conductive interfaces for real time analytical solutions
2020 – 2024	Co-tutelle , Cecile Jouanne, <i>viva voce</i> ; 05 th June 2025. CY Cergy University Paris, France
2020 – 2024	Co-tutelle , Clementine Louw, <i>viva voce</i> ; 17 September 2024. University of Groningen
2020 – 2023	Co-tutelle , Kevin Tambwe, <i>viva voce</i> . 12 December 2023 , CY Cergy University, Paris, France
2016 – 2018	Co-tutelle , Xolani Ngema, <i>viva voce</i> , 30 March 2018, CY Cergy University, Paris, France
2022	Plenary , The 6th Nanoscience and Nanotechnology Summer School, 23-25 October 2022.
2022	Plenary , 2nd International Conference on Recent Advances in material and chemical sciences-2022, Department of Chemistry, Bundelkhand University, Jhansi Uttar Pradesh, India (ICRAMCS); 3-5 November 2022
2022	Plenary , 10 th International workshop on Biosensors, Dakhla, Morocco; 13-15 October 2022
2022	Invited Guest lecture , Monash Chemistry Seminar Series, Clayton campus, Melbourne, Australia; 26 th October 2022

2021	Best Established Researcher , UWC Research Recognition Awards for Research Excellence, Faculty of Natural Sciences
2019 – present	Fellow of the Royal Society of Chemistry (UK)
2018 – present	Fellow of the African Academy of Science (AAS)
2017 –2021	Regional Representative South Africa and Africa , International society of Electrochemistry (ISE), Switzerland
2017 –2019	Director , South African Systems Analysis Centre (SASAC)
2015 – present	Member of the Academy of Science South Africa (ASSAf)
2015 –2017	Vice-chairperson , Analytical Division, International Society for Electrochemistry (ISE)
2014	Winner of the Deputy Vice-Chancellor’s Young Researcher Award, University of the Western Cape
2014	Winner of the Distinguished Woman Scientist Award in the category of Physical and Engineering Sciences, Department of Science and Technology, Ministry of South Africa, 15 August 2014
2013 – 2019	Visiting Professor , CY Cergy University, Paris, France
2013 – 2016	Deputy-chair , Division 1 (Analytical Electrochemistry), International Society for Electrochemistry (ISE)
2007 – 2018	Councilor , South African Chemical Institute (SACI)
2006 – 2018	Chairperson : Electrochemistry Division of the South African Chemical Institute (SACI)
2006 – 2018	Councilor South African Chemical Institute (SACI)