

**CURRICULUM VITAE  
BRUCE SIDNEY RUBIDGE.**

**A. BIOGRAPHICAL OUTLINE**

**1. Personal Details**

Name: Rubidge, Bruce Sidney.  
Date of birth: 1 June 1956  
Marital status: Married to Alida Marina (nee Liebetrau) on 17 November 1984.  
Children: 2 sons:  
Sidney Richard, born 30 October 1988.  
Mark Lourens, born 20 September 1990.  
Present position: Director Bernard Price Institute for Palaeontological Research, School for Geosciences, University of Witwatersrand.  
Present address: Bernard Price Institute (Palaeontology), University of Witwatersrand, Private Bag 3, PO Wits. 2050.

**2. Education**

Tertiary:  
1988. Ph.D. (Geology/Palaeontology), University of Port Elizabeth.  
1983. M.Sc. (Palaeontology) *cum laude*, University of Stellenbosch  
1979. B.Sc. Honours (Palaeontology) *cum laude*, University of Stellenbosch.  
1975 - 1978. BSc, University of Stellenbosch, (Major subjects: Zoology and Geology).

Secondary:  
1969 - 1974. St. Andrew's College, Grahamstown.

Primary:  
1963 - 1968. Union High School, Graaff-Reinet.

**3. Membership of professional societies.**

Sedimentology Division of the Geological Society of S.A. (Executive Committee 1991-1997, chair-1997).  
Institute for the Study of Man in Africa (Executive Committee 1991-1997).  
Palaeontological Society of Southern Africa (Vice president 1990-1992; President 1992-1994; immediate past president 1994-1996; President 2004-2006; immediate past president 2006-2008).  
Geological Society of Southern Africa – Fellow - (served on committee of Orange Free State Branch of Geological Society of Southern Africa (1984-1990); Conservation Committee 1996-2002).  
Royal Society of South Africa – Fellow.  
Zoological Society of Southern Africa - Member.  
Herpetological Association of Southern Africa.

Southern African Museums Association (1992-2001)  
Archaeological Society (Patron since 1992)

#### **4. Research affiliations.**

Council, National Museum, Bloemfontein (1999 - ; Chairman 2005- )  
National Heritage Council (2006- )  
STS Working Group on nonmarine Triassic correlations (1996 -2000).  
Consultative Committee of the Geology Section of Museum Africa (1991 - 2005 ).  
Biostratigraphic Task Group of the South African Commission for Stratigraphy (1986 -  
; Chairman since 1990)  
South African Committee for Stratigraphy (1999 - )  
Honorary Curator of the South African National Monuments Council (1989 -1994).  
South African Heritage Resources Agency, Permit Committee (2001- )  
National Monuments Council of South Africa, PACTS Committee (1998-2000)  
Grantee of the National Research Foundation (NRF). B rating.  
Served on various FRD evaluation committees, and reviewed research proposals.  
Co-ordinator of International Gondwanan Faunal Correlations Programme.  
Scientific advisor on Palaeontological Scientific Trust (PAST 2004 -

#### **5. Professional experience**

2001	Acting Deputy Dean (Research), Science Faculty, University of Witwatersrand.
2001 -	Director of Bernard Price Institute for Palaeontological Research, University of the Witwatersrand, Johannesburg.
May 1990 - 2000	Director of Bernard Price Institute for Palaeontological Research, & Head of Palaeontology Department, University of the Witwatersrand, Johannesburg.
1992 - 1993:	Consultant on Beaufort Biostratigraphy for the Atomic Energy Corporation Uranium Exploration Programme.
August 1988:	Consultant on Palaeontology for ERL in the Environmental Division of the Lesotho Highlands Development Authority.
Jan 1981- Apr 1990:	Head of Department of Karoo Palaeontology, National Museum, Bloemfontein.
Apr 1980 - Dec 1980:	Associate curator of Karoo Palaeontology, National Museum, Bloemfontein.

#### **6. Research Interest**

General: Palaeontology; comparative morphology, and Geology.

Specialities: Systematics, morphology and ecology of Karoo-age fossil tetrapods. Sedimentological and palaeoenvironmental studies of Karoo rocks; distribution of Permian-Jurassic tetrapods both in South Africa and globally.

#### **7. Serve on following University or University Related Committees over past year**

School for Geosciences Executive (2001 - )

Fossil Hominid Collection Access Committee (2002 - )  
 Institute of Human Evolution (IHE) Board (2007 - )  
 Makapansgat Research Advisory Committee (Chair)  
 Makapans Valley Management Committee (Chair)  
 Makapans Valley Section 21 Company (Chair)  
 Science Faculty Board (1990 - )  
 Science Faculty Research Committee (2009 - )  
 Senate (1996 - )  
 Technical and Administrative Staff Grading Committee.  
 Origins Centre Board (2005)  
 Kitching Fossil Exploration Centre Board (Chairman 2005 - )

## 8. Exhibitions

- 1980-1983: Designed and co-ordinated production of large display on origin and development of life, National Museum, Bloemfontein.
- 1990-1994: Designed and co-ordinated a New Palaeontology Exhibit, BPI Palaeontology, University of Witwatersrand.
- 1996: Designed and co-ordinated display on the development of life in the Bleslooch Museum, Geology Department, University of Witwatersrand.
- 1997-1999: Exhibit of life-sized animatronic reconstructions of prehistoric creatures.
- 2003: Together with Dr I Mc Kay, Designed and co-ordinated a New Palaeontology Exhibit, BPI Palaeontology, University of Witwatersrand.
- 2005: Together with Drs I Mc Kay and W de Klerk, Designed set up and co-ordinated the business plan, guide development and displays at the Kitching Fossil Exploration centre, Nieu Bethesda.
- 2009: Palaeontological consultant for the Golden Gate fossil exhibition centre.

## 9. Attendance at conferences

October 2010: Participation in Wits University Biodiversity seminar day, Johannesburg.  
 Paper: Rubidge B.S., Nicolas M. & Day M. *Permian-Jurassic terrestrial vertebrate biodiversity changes and responses to extinction events* In: MB Mostovski & MN Ovechkina Proceedings for the 16<sup>th</sup> Conference of the Palaeontological Society of southern Africa (Howick, August 5-8, 2010) Pietermaritzburg, 2010, .

September 2010. Participation in 6<sup>th</sup> International Geoscience Educators Conference, symposium "Geoheritage and Education in South Africa", Geological Society of South Africa, Johannesburg. Paper Rubidge B.S. *The Karoo – Geological Significance of a Geological and Palaeontological Superlative* (Invited paper)

August 2010. Participation in Fossil Fuel Foundation of Africa Conference on A review of the coal and anthracite industry in Kwazulu-Natal 2010, Champagne Sports Resort, Drakensberg. Paper Rubidge B.S. *Our future depends on the Past: Southern Africa's remarkable fossil record and its relevance to us today* (Plenary paper).

August 2010, Participation in 16<sup>th</sup> Conference of the Palaeontological Society of southern Africa, Howick, August 5-8, 2010.

Papers: Day, M & Rubidge B.S. *Middle Permian continental biodiversity changes as reflected in the Beaufort Group of South Africa: An initial review of the Tapinocephalus and Pristerognathus assemblage zones*. In: MB Mostovski & MN Ovechkina Proceedings of the 16<sup>th</sup> Conference of the Palaeontological Society of southern Africa (Howick, August 5-8, 2010) Pietermaritzburg, 2010, 22-23.

Güven S., Rubidge B.S., Abdala F. *Taxonomic reassessment of the dinocephalian family Tapinocephalidae*. In: MB Mostovski & MN Ovechkina Proceedings of the 16<sup>th</sup> Conference of the Palaeontological Society of southern Africa (Howick, August 5-8, 2010) Pietermaritzburg, 2010, 39-40.

Hancox J., Neveling, J. & Rubidge B.S. *Life in an Early Triassic lake: New developments from the Driefontein site, Burgersdorp Formation, (Cynognathus Assemblage Zone), South Africa*. In: MB Mostovski & MN Ovechkina Proceedings of the 16<sup>th</sup> Conference of the Palaeontological Society of southern Africa (Howick, August 5-8, 2010) Pietermaritzburg, 2010, 41-42.

Jirah S. & Rubidge B. *Sedimentological, palaeontological & stratigraphic analysis of the Abrahamskraal Formation (Beaufort Group) in an area south of Merweville, South Africa*. In: MB Mostovski & MN Ovechkina Proceedings of the 16<sup>th</sup> Conference of the Palaeontological Society of southern Africa (Howick, August 5-8, 2010) Pietermaritzburg, 2010, 46-47.

McKay I. & Rubidge B.S. *Kitching Fossil Exploration Centre (KFEC): an experiment in South African palaeotourism*. In: MB Mostovski & MN Ovechkina Proceedings of the 16<sup>th</sup> Conference of the Palaeontological Society of southern Africa (Howick, August 5-8, 2010) Pietermaritzburg, 2010, 60.

Norton L.A., Tafforeau P., Rubidge B.S., de Klerk W.J. *Study of tapinocephalid dinocephalian dentition using synchrotron microtomography*. In: MB Mostovski & MN Ovechkina Proceedings of the 16<sup>th</sup> Conference of the Palaeontological Society of southern Africa (Howick, August 5-8, 2010) Pietermaritzburg, 2010, 68-69.

Rubidge B.S., Erwin D.H., Ramezani J., Bowring S. & de Klerk W.J. *The first radiometric dates for the Beaufort Group, Karoo Supergroup of South Africa*. In: MB Mostovski & MN Ovechkina Proceedings of the 16<sup>th</sup> Conference of the Palaeontological Society of southern Africa (Howick, August 5-8, 2010) Pietermaritzburg, 2010, 82-83.

Zipfel B., Rubidge B.S. & Kemp C. *Fantastic fossil facilities at the Wits Palaeocentre – upgrading of research and storage areas*. In: MB Mostovski & MN Ovechkina Proceedings of the 16<sup>th</sup> Conference of the Palaeontological Society of southern Africa (Howick, August 5-8, 2010) Pietermaritzburg, 2010, 126-127.

January 2010. Participation in Biological Evolution, Chronometry and Chronostratigraphy, Indaba on the stratigraphy of South Africa to mark the retirement of Mike Johnson. Paper Rubidge B.S. *The Karoo- A Mecca for Permian-Jurassic Biodiversity* (Invited paper).

November 2009. Participation in Interprovincial Conference on Creative Tourism in the Karoo Implication for 2010 and beyond, Gariep. Paper Rubidge B.S. *The Karoo, a*

*geological and palaeontological superlative: economic potential of deep history*  
(Invited paper)

September 2009 Participation in Southern African Heads of Independent Schools Conference (SAHISA), Swaziland. Rubidge B.S. Our future depends on the past – southern Africa’s remarkable fossil record and its relevance to us today. (Keynote speaker).

September 2009. Participation in Society of Vertebrate Paleontology 69th Annual Meeting, Bristol, United Kingdom. Paper: Rubidge B.S., Angielczyk K., de Klerk W., & Abdala F. *Gondwanan Middle Permian synapsid radiations.*

Liu J., Rubidge B.S. & Li J. *New basal synapsids from China – a key to understanding therapsid origins.*

Van den Heever J., Abdala F. & Rubidge B.S. *Southern African Bauridae (Theriodontia, Eutherapsida): implications for Early-Middle Triassic biostratigraphy.*

Poster: Norton L., Tafforeau P., Rubidge B. & de Klerk W. *Use of synchrotron microtomography to examine tooth replacement patterns in a tapinocephalid dinocephalian.*

Atayman S., Rubidge B. & Abdala F. *Taxonomic revision of tapinocephalid dinocephalians – the key to understanding Middle Permian biodiversity.*

June 2009. Participation in World Heritage and Geotourism Conference 2009, Council for Geoscience, Pretoria.. Paper: Rubidge B.S. *South Africa’s remarkable fossil record* (invited speaker).

March 2009. Participation in Karoo Development Conference and Trade Fair, Graaff-reinet. Paper Rubidge B.S. *The Karoo as a unique geological site: the economic potential of deep history* (Keynote paper)

February 2009. Participation in Science at Synchrotrons Symposium, DST, Pretoria. Norton L., Tafforeau P., Rubidge B. & de Klerk W. *Investigation of the tooth replacement patterns of a tapinocephalid dinocephalian using synchrotron microtomography techniques.*

October 2008. Participation in AAPG International Conference and Exhibition. Paper: Rubidge B.S. *The four billion-year existence of life – Africa’s role in understanding this remarkable story* (Keynote paper).

September 2008. Participation at 14th Conference of the PSSA, Matjiesfontein. Papers: Atayman, S, Rubidge B. & Abdala, F. “*Taxonomic re-evaluation of tapinocephalid dinocephalians.*”

Bordy E.M., Sztano, O., Nador, A., Nagy, A., Bumby, A. & Rubidge, B.S. “*Vertebrate (Therapsida?) burrows in the Lower Katberg Formation (Beaufort Group) in the southwestern Main Karoo Basin (South Africa)*”. (Poster)

Norton L, Rubidge B. & Abdala, F – “*Shape variability in the skull of Aeulognathus (Therapsida: Gorgonopsia).*”

Nicolas, M., Kemp, C. & Rubidge, B.S. “*Beaufort Group GIS initiative: creating and maintaining an interactive fossil database for palaeontological research.*”

Rubidge, B.S. & Angielczyk, K. “*Stratigraphic ranges of Tapinocephalus Assemblage Zone dicynodonts: implications for middle Permian continental biostratigraphy.*”

April 2008. Participation Royal Society Centenary Conference. Paper: Rubidge B.S. “*A continents contribution to unraveling the story of life – reflections, breakthroughs and possibilities relating to the Southern African fossil record.*” (Plenary paper)

September 2007. Participation Workshop Problems in Western Gondwana Geology – South America-Africa Correlations: du Toit revisited. Paper: Rubidge, B.S. “*Karoo tetrapod biostratigraphy: relevance to understanding Gondwanan development.*”

June 2007. Participation at Workshop of Geoparks, Geological and Mining Conservation and Tourism development in South Africa. Paper: Rubidge, B.S., McKay, I. and de Klerk. W.J. “*Palaeotourism: gold mine or minefield?*”

September 2006. Participation at 14th Conference of the PSSA, Albany Museum and Rhodes University, Grahamstown. Papers:

Rubidge, B.S. and De Klerk, W.J. “*Only Albany dinocephalian reveals new toothy information.*”

Jinnah, Z.A. & Rubidge, B.S. “*A double tusked dicynodont and its biostratigraphic significance.*”

Mason, R.M., Rubidge, B.S. & Hancox, P.J. “*The Eccca-Beaufort contact in the Eastern Cape Province – reappraisal of litho- and biostratigraphy.*”

October 2005: Participation in International Nonmarine Permian Symposium, Albuquerque, New Mexico, USA. Keynote paper: Rubidge, B.S. *Middle-Late Permian tetrapod fauna from the South African Karoo and its biogeographic significance.*

July 2005: Participation in 5<sup>th</sup> International Conference of Animal Health Information Specialists, University of Pretoria, Onderstepoort, South Africa, Invited paper: Rubidge, B.S. *Catalogue to our past and clues for the future – What the fossil record tells us.*

February 2005: Participation in Fossils X3; Pretoria, South Africa (3<sup>rd</sup> International Congress of Palaeoentomology with 2<sup>nd</sup> International Meeting on Palaeoarthropodology and 2<sup>nd</sup> World Congress on Amber and its inclusions) Invited paper: Rubidge, B.S. *Palaeontology in South Africa.*

August 2004: Participation in 32<sup>nd</sup> International Geological Conference, Florence, Italy. Papers:

Hancox, P.J., Damiani, R., Rubidge, B. & Neveling, J. *The vertebrate fauna, palaeoecology and palaeoenvironment of the Early Triassic Burgersdorp Formation (Cynognathus Assemblage Zone) in the northern Free State, South Africa.*

Rubidge, B.S. & Hancox, P.J. Mid-Late Permian continental biostratigraphy of the South African Karoo – implications for global correlations and Karoo basin development.

July 2004: Participation in Geoscience Africa 2004, University of Witwatersrand, Johannesburg. Papers:

Bordy, E.M., Hancox, P.J. & Rubidge, B.S. *The junction of the Molteno and Elliot Formations in the main Karoo Basin (South Africa): Have these lithostatigraphic units ever co-existed* p68.

Hancox, P.J., Damiani, R.J. Neveling, J. & Rubidge, B.S. *Palaeoenvironments of the Early Triassic Burgersdorp Formation (Cynognathus Assemblage Zone, Subzone A) in the northeastern Free State, South Africa*, p250-251.

Jeannot, A.M., Damiani, R.J. & Rubidge, B.S. *Cranial anatomy of Lydekkerina huxleyi (Stereospondyli: Lydekkerinidae) and its implications for lydekkerinid taxonomy* p305.

Rubidge, B.S. & Hancox, P.J. *The Eccca-Beaufort contact in the Eastern Cape Province – new evidence documenting a typical Eccca-beaufort style transition from sub-aqueous to sub-aerial deposition* p 423-424.

Rubidge, B.S., Nicolas, M.V. & Netterberg, I. *Fossils, databases and intellectual property – quo vadis*, p 562.

Rubidge, B.S., Sidor, C.A. & Modesto, S.P. *A new biarmosuchian therapsid from the Tapinocephalus Assemblage Zone, Beaufort Group of South Africa*, p 563.

May 2004: Participation in 3<sup>rd</sup> Southern African Library acquisitions Conference, CSIR, Pretoria. Paper: Rubidge, B.S. *Adapt or be phased out – what the fossils tell us*. (Keynote speaker).

October 2003: Participation in Society of Vertebrate Paleontology 63rd Annual Meeting, St Paul, Minnesota Paper: Angielczyk, K. & Rubidge B.S. *Dicynodont extinctions in the Permian: one, many or none*.

September 2003: Participation at Environmental Network conference, Delata Park Environmental Centre, Johannesburg. Paper: Rubidge B.S., *South Africa's world class fossil heritage – Tourism winner or minefield?* (Keynote speaker)

September 2003: Participation at Goldschmidt Conference. Paper: de Kock, M., Beukes, N., Hancox, P.J. Kirschwink, J., Rubidge, B.S., Neveling, J., and Ward, P. *Permian-Triassic magnetostratigraphy in the Karoo Basin of South Africa*.

July 2003. Participation at Geoforum, Pretoria. Papers:

Rubidge, B.S. & Hancox, P.J. *Sedimentological and palaeontological nature of the Ecca-Beaufort contact: implications for Permian evolution of the Karoo Basin.*

Bordy, E., Hancox, P.J & Rubidge, B.S. *New insights into the development of the Karoo Basin during deposition of the Elliot Formation in the Triassic- Early Jurassic*

October 2002. Participation at 12th Conference of the PSSA, National Museum, Bloemfontein. Papers:

Papers: Wright CA, Rubidge, BS, and Hancox PJ. *“The Ecca-Beaufort contact at Estcourt in Kwazulu-Natal: implications for Karoo basin development.”*

Rubidge, BS and Hancox, PJ. *“The Ecca-Beaufort contact: implications for the Permian development of the main Karoo Basin, South Africa.”*

Smith, RMH and Rubidge BS. *“Proburnetia (Therapsida: Biarmosuchia) from the Late Permian of South Africa: implications for trans-Pangean therapsid migration.”*

Bristowe, A. and Rubidge, BS. *“Postcranial skeleton of a basal anomodont therapsid from the Cistecephalus Assemblage Zone of the Karoo Basin.”*

Govender, R, Rubidge, BS and Renaut, A. *“Comparative analysis of the postcranial skeleton of Tapinocaninus pamelae Rubidge.”*

Hancox, PJ, Neveling, J, Bender, P, Damiani, R and Rubidge BS. *“The fauna of the lower part of the Cynognathus Assemblage Zone and its bearing on the biostratigraphic subdivision of the biozone”.*

August 2002 participation at Sitting Ducks or Charging Bulls? The significance of South African Research (particularly Earth Sciences, Palaeontology, and Archaeology) and the impact it has on tourism and education. NRF, SA Museum, Cape Town.

Keynote paper: Rubidge, B.S. *“Karoo fossils – palaeotourism potential pitfalls and problems.”*

11<sup>th</sup> international Gondwana Conference, University of Canterbury, Christchurch, New Zealand. August 2002

Papers: Rubidge, B.S. & Hancox, P.J. *“Reptile fossils, sequence analysis, and the nature of the Ecca- Beaufort contact: implications for the Permian development of the main Karoo Basin, South Africa”.*

Catuneanu, O., Hancox, P.J., Cairncross, B. & Rubidge, B.S. *“Interplay of flexural tectonics and dynamic loading in foreland systems: accommodation and sedimentation in the Ecca seaway, Karoo Basin.”*

Hancox, P.J., Catuneanu, O., & Rubidge, B.S. *“Triassic fill and tectonostratigraphic development of the main Karoo Basin (South Africa)”.*

11<sup>th</sup> Quadrennial IAGOD Symposium and Geocongress 2002, Windhoek, Namibia. July 2002

Keynote paper: Rubidge, B.S. *“Reuniting lost continents – fossil reptiles from the ancient Karoo and their wanderlust.”*

16th IAS Conference, Johannesburg. July 2002



Paper: Rubidge, B.S. & Hancox, P.J. “*The marriage of sedimentology and palaeontology in basin development studies. The implications for the nature of the Ecca-Beaufort contact, and the development of the Karoo basin during the Permian.*”

8<sup>th</sup> International Symposium of Mesozoic Terrestrial Ecosystems, Cape Town. July 2002

Papers: Hancox, P.J. Rubidge, B.S., Renaut, A.J. and Modesto, S.P. “*Phylogenetic analysis of the Triassic dicynodonts (Synapsida: Therapsida)*”

Hancox, P.J., Damiani, R.J., Neveling, J. & Rubidge, B.S. “*The vertebrate fauna, palaeoecology and palaeoenvironment of the Early Triassic Burgersdorp Formation (Cynognathus Assemblage Zone, Subzone A)*”.

August 2002 participation at Sitting Ducks or Charging Bulls? The significance of South African Research (particularly Earth Sciences, Palaeontology, and Archaeology) and the impact it has on tourism and education. NRF, SA Museum, Cape Town. Keynote paper:

Rubidge, B.S. “*Karoo fossils – palaeotourism potential pitfalls and problems.*”

July 2001. Participation in Anatomy and Morphology Conference, Jena. Paper:

van den Heever, J.A. & Rubidge, B.S. . 2001. “Systematic revision of the Upper Permian dinocephalian *Anteosaurus*.” *Journal of Morphology*, **248**, 293.

June 2001. Participation in NAPC Conference, Berkeley, California. Paper:

Rubidge, B S, Modesto, S P & Govender, R. “Basal therapsid fauna from South Africa – implications for therapsid origins.”

Hancox, P.J., Rubidge, B.S. and Renaut A.J. 2001. ”Phylogeny of Triassic Dicynodonts: Evolutionary and Biochronological Implications.”

October 2000. Participation in Society of Vertebrate Paleontology 60th Annual Meeting, Mexico City, Mexico. Papers:

Rubidge B.S. & Modesto, S.P. “New basal therapsids from the Permian of South Africa: Implications for Karoo Basin development.”

Hancox P J., Rubidge, BS, Modesto, S & Renaut, A “Systematics of the Triassic dicynodonts”

Neveling J., Hancox, P.J., Damiani, R. & Rubidge, B.S. “Early Triassic faunas from the *Lystrosaurus* and *Cynognathus* Assemblage Zones, South Africa.

September 2000. Participation in PSSA 11<sup>th</sup> Conference, Pretoria. Papers:

Rubidge, B.S. Modesto, S.P. & Welman, J. “New basal therapsids from the Permian of South Africa: their importance for Karoo basin development.”

Rubidge, B.S. & Duncan, M. “Palaeotourism: A means to sustain southern African Palaeontological Endeavour.”

Hancox, P.J., Rubidge, B.S., Damiani, R., and Neveling, J. 2000. “The vertebrate fauna and palaeoenvironmental setting of the Early Triassic Burgersdorp Formation (*Cynognathus* Assemblage Zone Subzone A) in the northwestern Free State, South Africa”.

July 2000: Participation in 18<sup>th</sup> Colloquium of African Geology, Graz, Austria. Keynote Speaker and 1 poster with J Neveling, B. Rubidge, P.J. Hancox & R. Damiani).

July 1999: Participation in Annual Conference of the Zoological Society of Southern Africa, Pietersburg. (2 papers, one B. Rubidge & J. Hancox; one with J. Hancox, B Rubidge & S Modesto)

Sept 1998: Participation in 10<sup>th</sup> Conference of the Palaeontological Society of Southern Africa, Windhoek (2 papers: one with S.P Modesto; one with F. Holzfoerster; I. Stanisteet, H. Stollhofen & M. Raath)

July 1998: Participation in 10<sup>th</sup> International Gondwana Conference, Cape Town. (1 paper in collaboration with S.P. Modesto.

July 1997: Participation in CAVEPS Congress, Perth Australia. (1 paper,)

Sept 1996: Participation in 9th National Congress of the Palaeontological Society of Southern Africa, Stellenbosch (2 papers, one in collaboration with P.J. Hancox & M.A. Shishkin).

Aug 1996: Participation in "International Geological Conference" (Beijing, China) (Paper in collaboration with M.A Shishkin & P.J. Hancox.)

March 1996: Participation in AAPG Annual Convention, Salt Lake City, Utah. (1 paper in collaboration with O. Catuneanu, P.J Hancox. Presented by Catuneanu).

March 1996: Participation in "Recent advances in South African Sedimentology" Symposium hosted by the Sedimentology Division of the Geological Society of South Africa, Pretoria. (Paper in collaboration with P.J. Hancox).

August 1995: Participation in 6th Mesozoic Terrestrial Ecosystems Conference, Beijing, China) (paper in collaboration with M. Shishkin & P.J. Hancox).

April 1995: Participation in International Centennial Geocongress, Johannesburg (2 papers, one in collaboration with P.J.Hancox.)

Sept 1994: Participation in the 8th National Congress of the Palaeontological Society of Southern Africa, Albany Museum, Grahamstown (1 paper plus Presidential Address)

July 1994: Participation in Congress of the Zoological Society of South Africa, Pietermaritzburg.

March 1994: Participation in AEC conference on Karoo Uranium Exploration, Pelindaba (paper in collaboration with J.W. Kitching).

Sept 1992: Participation in the 7th National Congress of the Palaeontological Society of Southern Africa, University of Witwatersrand, Johannesburg (2 papers, and on organising committee).

July 1992: Attendance at the 24th Earth Science Congress of the Geological Society of South Africa (Geocongress 92), University of the Orange Free State, Bloemfontein.

Sept 1990: Participation in the 6th National Congress of the Palaeontological Society of Southern Africa, Golden Gate.

July 1990: Attendance at the 23rd Earth Science Congress of the Geological Society of South Africa (Geocongress 90), University of Cape Town, Cape Town.

April 1989: Participation in 53rd annual conference of the Southern African Museums Association, Bloemfontein.

Sept 1988: Participation in 5th National Congress of the Palaeontological Society of Southern Africa, Graaff-Reinet. (3 papers, and Chair of organising committee)

July 1988: Participation in the 22nd Earth Science Congress of the Geological Society of South Africa (Geocongress 88), University of Natal, Durban.

Oct 1987: Attendance at Geological Field School on Coastal Depositional Environments held at Port Elizabeth and organised by Prof. I.C.Rust, Geology Department, University of Port Elizabeth.

April 1987: Participation in a special conference on "Problems relating to the Ecca-Beaufort contact of the Karoo Sequence in South Africa", Geological Survey of South Africa, Pretoria.

Feb 1987: Participation in technical conference of the South African Museum's Association, National Museum, Bloemfontein.

Oct 1986: Participation in 4th National Congress of the Palaeontological Society of Southern Africa, South African Museum, Cape Town.

Oct 1984: Participation in technical conference of the South African Museums Association, Mc Gregor Museum, Kimberley.

July 1984: Participation in 3rd National Congress of the Palaeontological Society of Southern Africa, University of Stellenbosch, Stellenbosch. (two papers).

Oct 1983: Attendance at Geological Field School on Fluvial and Coastal Depositional environments which was held at Plettenberg Bay and organised by Prof. I.C. Rust, Geology Department, University of Port Elizabeth.

July 1982: Participation in 2nd National Congress of the Palaeontological Society of Southern Africa, Geological Survey of South Africa, Pretoria.

## **10. Named Guest lectures**

- 1992 – Sidney Rubidge Memorial Lecture; Graaff-Reinet.
- 1993 - Sidney Haughton Memorial Lecture; Royal Society, Cape Town.
- 1995 – Robert Broom Memorial Lecture; Transvaal Museum, Pretoria.
- 1996 – John Hewett Memorial Lecture; Albany Museum, Grahamstown.
- 2002 – Alex du Toit Memorial Lecture; Geological Society of South Africa.
- 2002 – Schonland Memorial Lecture; Royal Society, Grahamstown.
- 2005 - Robert Broom Memorial Lecture; Transvaal Museum, Pretoria. (with CK Brain)

## **11. Editorships**

- 2005 - Editorial Board of *Researches of the National Museum*
- 2001 - Editorial Board of *Annals of the South African Museum*.
- 2002 - Associate editor of *Palaeontologia africana*.
- 1990 – 2001 Editor of *Palaeontologia Africana* (responsible for the production of volumes 27-37).
- 1998 -2000 Guest Editorial Board of *Journal of African Earth Sciences*, for Gondwana 10. papers.
- 1991 -1999 Editorial Board of *South African Journal of Geology*
- 1989 - 1995 Editor of *Biostratigraphy of the rocks of the Beaufort Group, South Africa*.

## **B. SUPERVISION OF POSTGRADUATE STUDENTS**

### MSc

JIRAH, S. (first registered 2010). *Stratigraphy and sedimentology of the Tapinocephalus Zone (Abrahamskraal Formation) in the area around Merweville*  
Supervisor: B Rubidge

NXUMALO, V. (first registered 2008). *Stratigraphy and basin modeling of the Gemsbok Sub-basin (Karoo Supergroup) of Botswana and Namibia*.  
Supervisors: B Rubidge, G Drennan and J Neveling.

NORTON, L (first registered 2008). *Relative growth and skull variability in Aelurognathus (Reptilia: Gorgonopsia)*”  
Supervisors: B Rubidge and F. Abdala.

MASON, R. (first registered 2004; graduated 2007). *A synthesis of the stratigraphy and biostratigraphy of the Ecc-a-Beaufort contact in the Eastern Cape Province, South Africa*. Supervisors: B Rubidge and P.J. Hancox.

PITCHER, A.M. (first registered 2002; full time; graduated 2004). *Morphology, variation and ontogeny in Lydekkerina huxleyi (Lydekker 1889) Amphibia, Temnospondyli*. Supervisors: R Damiani and B. Rubidge.

RUTHERFORD, A. (first registered 2002; part time; graduated 2009). *Geology, stratigraphy and palaeoenvironment of the area around Thaba 'Nchu, Free State*. Supervisors: B. Rubidge and P.J. Hancox.

GOVENDER, R. (first registered February 2000, full time; graduated 2002). *A Comparative Description of the Postcranial Anatomy of the most basal tapinocephalid dinocephalian Tapinocaninus pamelaie Rubidge (Amniota, Therapsida)*. Supervisors: B. Rubidge and A. Renaut.

MUNYIKWA, D. (first registered 1998, part time; graduated 2001)). *“Dinocephalian mammal-like reptiles from Madumabisa Mudstone Formation (Permian) Hwange, Zimbabwe*. Supervisors: B. Rubidge and M.A. Raath.

RENAUT, A. (first registered 1995, completed 1999). *A re-evaluation of the cranial morphology and taxonomy of the Triassic dicynodont Kannemeyeria*. Supervisors: B. Rubidge and P.J. Hancox.

ROSSOUW, L. (first registered 1996; part time; graduated *cum laude* 2001). *The taxonomic status of Antidorcas australis as reflected by its postcranial osteomorphology*. Supervisors: B. Rubidge and J.S. Brink.

NEVELING, J. (first registered 1996, completed 1998). *A palaeontological, stratigraphic and palaeoenvironmental synthesis of the Triassic contact between the Lystrosaurus and Cynognathus Assemblage Zones of the Beaufort Group, South Africa*. Supervisors: B. Rubidge and P.J. Hancox.

VAN ROOYEN, J.M. (graduated 1990) *The osteology and functional anatomy of the postcranial skeleton of Gorgonops torvus. Owen (Gorgonopsia: Therapsida)*. Supervisors: S. Fourie and B. Rubidge.

#### PhD

DAY, M. (first registered 2010). *Middle Permian continental biodiversity changes as reflected in the Beaufort Group of South Africa: A Bio- and Lithostratigraphic review of the Tapinocephalus and Pristerognathus assemblage zones”*  
Supervisor: B.S. Rubidge

ATAYMAN, S (first registered 2008). *Taxonomic revision of the tapinocephalid dinocephalian subfamilies Moschopinae, Tapinocephalinae and Reibeckosaurinae – the key to understanding Middle Permian tetrapod biodiversity*  
Supervisors: B.S. Rubidge and F. Abdala.

GESS, R. (first registered 2005) *A taxonomic, biogeographic, biostratigraphic and palaeoecological synthesis of the Famennian Witpoort Formation of South Africa (Cape Supergroup, Witteberg Group)*

Supervisors: B.S. Rubidge and M. Coates.

CISNEROS, J-C. (first registered 2003; graduated 2007). *Cranial anatomy of the South African genus Procolophon*. Supervisors: B. Rubidge and R. Damiani.

NICOLAS, M. (first registered 2003; graduated 2007). *Tetrapod biodiversity through the Permo-Triassic Beaufort Group (Karoo Supergroup) of South Africa*. Supervisor: B. Rubidge

LATIMER, E.M. (first registered 1994, upgrade to PhD 1995). *A revision of Karoo amphibians of the family Rhinesuchidae, and an assessment of their biostratigraphic significance*. Supervisor: B. Rubidge.

NEVELING, J. - (first registered 1995, part-time; upgraded to PhD under rule 65 in 1998, part time, graduated 2002). *"The biostratigraphy and palaeontology of the contact area between the Lystrosaurus and Cynognathus Assemblage Zones (Beaufort Group: Karoo Supergroup)." Supervisors: B. Rubidge and P J Hancox.*

FOURIE, H. (first registered 1992; part time, graduated 2001). *Morphological, functional and systematic study of the postcrania of selected genera of Therocephalia (Amniota: Therapsida)*. Supervisors: B. Rubidge and G.M. King).

RENAUT, A. – (first registered 1999; graduated 2001). *A re-evaluation of the cranial morphology and taxonomy of the Triassic dicynodont Kannemeyeria*. Supervisors: B. Rubidge and P J Hancox.

BORDY, E. (first registered February 1998 full time; Graduated April 2001). *Sedimentology of the Karoo Supergroup in the Tuli Basin (Limpopo River Area, South Africa)*. Supervisors: O. Catuneanu and BS Rubidge.

BENDER, P.A. (first registered 1995, part time; graduated 2000). *Paleoniscid fish of the Lower Beaufort Group, South Africa*. Supervisors: B. Rubidge and J. Long.

HANCOX, P.J. (first registered 1994, graduated 1998). *A stratigraphic, sedimentological and palaeoenvironmental appraisal of the Triassic Beaufort-Molteno contact in the vicinity of Sterkstroom, Eastern Cape Province*. Supervisor: B. Rubidge.

**Postdoctoral students and visiting fellows:**

D.W Dilkes 1992-1994

M.A. Shishkin 1994. Wilson Travel Fellowship

M.A.Shishkin 1995. NRF Fellowship

S.P Modesto 1998-2000.

R. Damiani 1999- 2004.

F. Abdala 2002-  
E. Bordy 2002-2004  
A. Yates 2003- 2004  
P.J. Hancox 2005 – 2006  
R. Govender 2006 – 2008  
R. Mutter 2008 – 2009.

## **C. PUBLICATION LIST**

### **Scientific publications**

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ANGIELCZYK, K.D. & **RUBIDGE, B.S.** 2009 The Permian dicynodont *Colobodectes cluveri* (Therapsida, Anomodontia), with notes on its ontogeny and stratigraphic range in the Karoo Basin, South Africa. *Journal of Vertebrate Paleontology* **29** (4), 1-12.

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NICOLAS, M. & **RUBIDGE, B.S.** (in press). Changes in Permo-Triassic terrestrial tetrapod ecological representation as evidenced from the Beaufort Group (Karoo Supergroup) of South Africa. *Lethaia*

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#### **D. CURRENT RESEARCH & ADDITIONAL COMMENTS**

During my research career I have been, and still am involved in various research projects relating to the Permian and Triassic Karoo fossil fauna and have attempted to stimulate international research collaboration on the Karoo and its fossils. This fauna is of global interest as southern Africa occupied a central place in Gondwana, and the fossils found in the Karoo tend to have a global distribution. The most complete and long-ranging succession is in South Africa, and the fossils are also more abundant in this country than anywhere else. In order to compare the South African Karoo fossil faunas with those from other parts of the world I have undertaken research trips to the Palaeontological Institute in Moscow; Institute for Vertebrate Palaeontology and Palaeoanthropology in Beijing; Natural History Museum in London; Zoological Collections Oxford; Sedgwick and Zoology Museums Cambridge; the Institute for Geology & Palaeontology in Tübingen; Bayerische Staatssammlung, Munich; Natural History Museum, Perth; National Museum of Natural History, Smithsonian Institution Washington DC.; American Museum of Natural History, New York; Field Museum Chicago; Department of Anatomy and Organismal Biology, University of Chicago; Palaeontology Museum, University of California at Berkeley; National Museum, Bulawayo; Geological Survey Museum, Namibia.

I have been fortunate to have discovered a new and hitherto unknown fauna of fossil reptiles in the rocks of the Beaufort Group in South Africa. Apart from being new species, these fossils are of importance as they are the oldest fossils of land living reptiles yet discovered in Gondwana. They are also of the most primitive mammal-like reptiles (therapsids) yet discovered in the world. The only other country where a similar fauna has been discovered is in Russia. To this end I visited the Palaeontological Institute in Moscow in order to study their fossils and compare them to the forms from South Africa. It is now apparent that the new finds from South Africa are indeed very similar to those from Russia, and in many respects the fossils from this country are even more primitive. These fossils are the very distant ancestors of mammals, and whereas it was previously thought that these animals arose in Russia, it now appears that the most distant ancestors of mammals may have originated in South Africa. Even more recently similar primitive anteosaurid dinocephalians have also been discovered in China, and I have been involved in collaborative research with palaeontologists from Beijing with this discovery, as well as research on other basal therapsids from China..

Research to compare the early therapsid fauna from China, Russia and South Africa is being conducted. Fieldwork to find more of this new primitive fauna from South Africa

continues. This is necessary as a new biozone of the Beaufort Group has been defined on the presence of this primitive therapsid fauna. I am trying to ascertain the geographical extent of this biozone as well as its vertical range in an effort to understand how the new fauna relates to the previously known most primitive therapsids from South Africa.

I involved in various collaborative research projects with colleagues from various other institutes: Dr Liu Jin (Institute of Vertebrate Palaeontology and Palaeoanthropology, Beijing); Dr J.A. van den Heever (University of Stellenbosch); Dr D Erwin (Smithsonian Institute, Washington); Dr C Sidor (University of Washington); Prof Sam Bowring (MIT); Dr K Angielczyk (Field Museum, Chicago) Dr R. Smith (South African Museum, Cape Town); Dr J. Neveling (Council for Geoscience, Pretoria), Dr W. de Klerk (Albany Museum, Grahamstown), Dr E Bordy (Rhodes University, Grahamstown).