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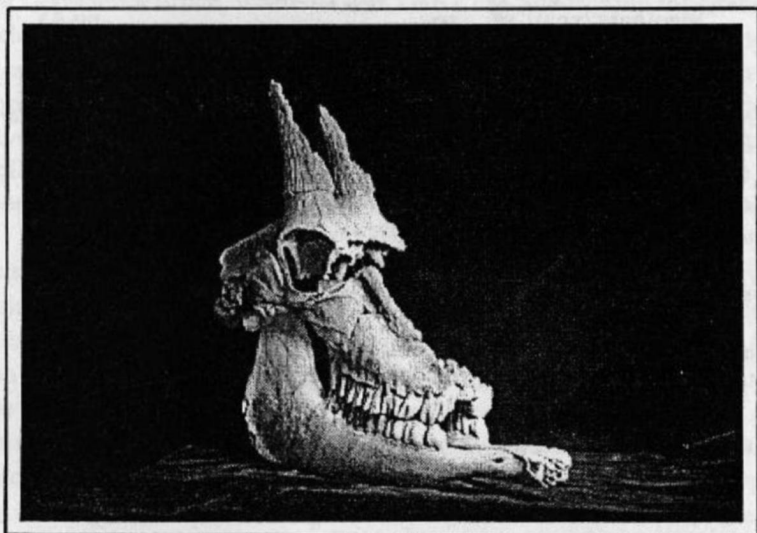
PAL NEWS  
NUUS



Biannual newsletter of the Palaeontological Society of Southern Africa.  
Halfjaarlikse Nuusbrief van die Paleontologiese Vereniging van Suider Afrika.

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## CONTENTS

• From the Editor	pg 3
• Minutes from the PSSA-meeting	pg 4
• News from:	
Karen Adiami-Rodrigues, Brazil	pg 10
Bob Brain - Tvl Museum	pg 10
Anne Cadman - BPI	pg 11
Billy de Klerk - Grahamstown	pg 17
Fiona Evans - Stellenbosch University	pg 20
Roger Smith - Cape Town	pg 22
• Email addresses on the Internet	pg 28
• PSSA Webpage	pg 29
• National Monuments Council Permits	pg 29
• Members email addresses	pg 45

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**Front cover:** A skull of *Hippotragus leucophaeus* (the bloubok to the uninitiated) from Basaanskop.

## FROM THE EDITOR

Greetings to you all,

Thanks to all the contributors to the current issue. As usual we have some interesting news from all over the world. Of course its been PSSA conference time again (PSSA '98) with the tenth biennial conference come and gone. Next up is the year 2 000 and another 1000 years of palaeontological research on our doorstep! But whats' 1000 or 2000 years compared to millions and millions anyway? Anyway we still have another issue of PALNEWS before we get into the mellenium issue (January 2000 Vol 12 (3)).

One of our SA Pal. community researchers seems unfortunately to have left our ranks. I'm sure I speak on behalf of all of the PSSA members in saying that I am very sorry to hear that John has left the Bellville Council for Geoscience office, where he was THE Cape Supergroup invertebrate palaeontologist, trace fossil palaeontologist and stratigrapher of note. Hopefully John can be enticed back into the community somehow, somewhere (any ideas?). Good luck John with whatever you decide to involve yourself in the future and hope to see you around in amongst the collections and in the field. Fiona Evans, fellow Cape Supergroup co-worker with John Almond, has further tributes to pay in her issue news.

Last year was The Year of Science and Technology. Most South African palaeontologists were pretty involved in getting the palaeontology message out. Here at the Council for Geoscience myself, Ina Plug (no, Ina is still with the Transvaal Museum!) and Danie Barnardo in particular, are involved in getting one further educational product out, namely a series of printed earth science guides and project booklets (including palaeontology of course with the focus on S.A. pal.). Copies should be available to all from about May 1999. Please contact me for copies/details.

All the best, take care, Patrick.

# **PALAEONTOLOGICAL SOCIETY OF SOUTHERN AFRICA**

**10<sup>th</sup> BIENNIAL CONFERENCE**

**WINDHOEK**

**17 September 1998**

## **MINUTES BGM**

**Chairman: Roger Smith (President PSSA)**

### **Agenda**

1. Apologies
2. Minutes of previous meeting
3. Matters arising
4. Treasurer's report
5. Nominations for new committee
6. Honorary membership
7. Educational report back
8. Venue for next conference
9. Other business

#### **1. Apologies**

Bob Brain, Gideon Rousseau, Eric Anderson, Johann Welman, Eddie van Dijk, Francois Durand, Anusuya Chinsamy-Turan, Ann Cadman, Pippa Haarhoff.

#### **2. Minutes of previous meeting**

Proposed, seconded, accepted.

#### **3. Matters arising**

Will be dealt with under other business.

#### **4. Treasures's Report**

Given by Roger Smith on behalf of Pippa Haarhoff:

- passed by the auditor.



- should increase subscription.
- a cheque account has been opened to facilitate payments.
- what should be done with the R25 000 presently in a 32 day account?

Suggestions for the interest:

- a. Subvent student attendance.
- b. Subsidise student field work.
- c. Continue to pay for Francis Thackeray's casts for schools project (R4 000 last year).
- d. Student study bursary.
- e. Look for sponsorship to increase the amount.

*Many other suggestions so this should be discussed in the PalNews:*

**Capital**

- a. Put it in a Unit Trust and get more interest
- b. Look for sponsorship or donations to increase this amount and plan for the next ten years
- c. Other suggestions.

**Interest**

- a. Subsidise student attendance
  - committee to evaluate merit (supervisor motivation) and/or financial need
- b. Subsidise student field work
- c. Student bursary
- d. Other projects

## **5. Nominations**

Although a quorum was not present, nominations had been called for in the PalNews so everyone had had an opportunity to nominate new committee members.

New Committee for 1999-2000:

President	Billy de Klerk
Vice President	Juri van den Heever
Secretary	Marion Bamford

Treasurer  
Editor PalNews  
Co-editor

Johann Welman  
Patrick Bender  
Johann Neveling

## **6. Honorary Membership**

Proposed: Bob Brain

(CV has been prepared - Roger has it)

- Free membership for life certificate
- Volume of *Palaeontologia africana* dedicated to Bob and his contribution to palaeontology in southern Africa
- Will be honoured formally next meeting with a leatherbound volume from the editor.

Accepted.

## **7. Educational Report Back**

Bruce Rubidge

- The BPI "roadshow" consisting of animated dinocephalians, dinosaur, gorgon and *Aulacephalodon*, has been to the Grahamstown Science Festival, several shopping centres, and as part of YEAST (Year of Science and Technology) to Umtata, Bloemfontein, Nelspruit and Pietersburg.
- Casts are being marketed to schools.
- Visitor numbers to the BPI Museum (officially named the James Kitching Gallery in August this year) have increased to several school groups per week.

Billy de Klerk

- The second Science Festival in Grahamstown was an even bigger success than the first with earth sciences and palaeontology (SAM, BPI and Albany Museum) having a high profile. Bob Brain gave a keynote address. Billy asks for suggestions for other keynote lecturers. • There has been an upsurge in the number of invitations to lecture to key groups. Also more interest from high press profile.

#### Arthur Cruikshank

The *Dino Society of the UK* has a newsletter and publication exchange system so please contact them if help or information is needed. Also they have interactive educational CD's and offer technological help. Contact Arthur. (The Society have subsequently become an exchange member of the PSSA, so we will be exchanging news and views - ed.)

#### Martin Pickford

- The Geological Survey Museum in Windhoek has been established but needs a competent curator and guide. School groups do visit.
- A museum has been set up in Kampala (Uganda) and is very successful with 10-15 schools visiting per day.
- Independent of the National Museum, community museums have been set up in Kenya, in outlying areas. These small museums may well look to South Africa in a few years time, for example, to the educational concept at Langebaan.

#### Juri van den Heever

- Juri has given a series of popular lectures ranging from primary schools to Rotary clubs.
- His department has money to change the museum into an education centre where palaeontology will be a large part, and there will be a public relations person. There are 25 schools in the area and they will be brought in on a regular basis for science, palaeontology and biology.

#### Francis Thackeray

- From last year's focus on Mrs Ples and the poster, the public's awareness of fossils grew from less than 10% to much more. There will be more publicity here and at the Berlin meeting.
- The limited edition production of gold coins by the SA mint was a success. They are now interested in an evolutionary series, for example the coelacanth. Send your suggestions to Francis.
- The project to supply casts to children at all schools is in progress and has a 20 year objective, in collaboration with Josemar and Mandy Esterhuysen.

### Patrick Bender

As part of the Year of Science and Technology, Geosciences has nominated to produce educational material: 4 videos, posters, audiotapes, earthguide (geology-palaeontology). This has been done and needs to be distributed. Billy added that the palaeontology section was pitched at any child of around 12 years. It was well-structured and thought-provoking and should be freely available for school groups.

### Willem Grotépas

- The Atomic Energy Cooperation is giving full access to their neutron facility so take advantage of it.
- He has introduced palaeontology into his dentistry course.

### Ludwig Döhne

The Amateur Palaeontological Society has some 200 members. They have no money for promoting themselves but they do try to get a professional palaeontologist to give a talk to the members about once a month. They only organise one field trip a year. If anyone needs volunteers in the field - they pay their own expenses - please contact Ludwig.

Brigitte Senut asked about Colin MacRae's book. Barry Millstead said that the Geological Society will eventually fund the publication and the book had gone to layout.

### Roger Smith

- Roger has run three public field trips - two to the Cedarberg and a week-long one to the Karoo, as well as travelling overseas.
- For Focus Week the South African Museum had its demo-wagons at the V & A Waterfront. These are interactive demos with Hedi and others preparing fossils. They were very popular and featured in the news.
- The SAM has launched the West Coast Fossil Park, a million rand site museum complex at Langebaanweg, with its rich, diverse and abundant fauna. There is a large building over the fossil site and accommodation for eight scientists to do research on site. Palo Jordan (Minister of

Environment) is promoting environmental scientists. Coachloads of school kids are expected to visit the park, and next year the the Namaqualand flower visitors too. SAMANCOR is providing the 5 year R5 million funding.

#### **8. Venue for next Conference**

Francis Thackeray was persuaded to host the 11<sup>th</sup> PSSA conference in Pretoria at the Transvaal Museum.

Aliwal North may be considered for the following meeting.

#### **9. Other Business**

- Martin Pickford asked what was the northern limit of the society's membership: None so the Ugandans could apply to join.
- Juri suggested that we have another membership drive. Accepted.
- Contact the secretary, Marion Bamford, for membership forms of the PSSA.
- Herbie suggested advertising in the Geobulletin.
- Billy said that the webpage needs comments and updating so the address will be published in the next PalNews. Other questions that need discussion are the lists of members' e-mail addresses, linking this webpage to other department webpages, graphics as options, putting a society membership application form and means of payment (subject to approval of application) on the webpage.
- Billy proposed a vote of thanks to the out-going committee members, Roger, Pippa and Anusuya. Thanks also to Roger, Hedi, Patrick, Martin and Brigitte for organising the conference, and Garbi Schneider of the Windhoek Geological Survey for hosting the conference.

The meeting was closed.

NEWS FROM: KAREN ADAMI-RODRIGUES, FEDERAL  
UNIVERSITY, RIO GRANDE DO SUL, BRAZIL

I would like to inform that my Ph.D.Thesis, which is presently under development, has its first results presented at the Gonwana Symposium. Species found in an outcrop in our State, as belonging to the Pygocephalomorpha crustacean *Pygaspis brasiliensis* are really different species and even different genera. This fact agrees with the first observations on the African material, which is also under study. In September p.p., in the First International Paleontomological Conference, in Moscow, Professors Würdig, Pinto and myself presented a paper about the relationship between the crustaceans and the paleontomofauna, which was until now registered as Kazanian by comparison with the Russian entomofauna. We discussed these results with Dr. Ponomarenko a Russian paleontomologist, and he believes that the fauna corresponds more to the Kungurian than to the Kazanian. This age for Irati Fm. in Brazil will correspond exactly to the one of WhiteHill Fm., which correspondence was observed also through crustaceans, reptiles, plants and insects. I would also like to inform that the supervisor of my thesis, Prof. Emeritus Dr. Irajá Damiani Pinto, who is now **a member of the Paleontological Society of South Africa**, was nominated as a Member of the "Gr -Cruz" of the National Scientific Merit, the highest award in Sciences in Brazil. The insignia will be conferred to him by the President of Brazil on November 30th, in a solemnity that will be taken place in the city of Brasília.

BOB BRAIN, TRANSVAAL MUSEUM

During the last year, Bob continued his marathon search for Proterozoic fossil micro-invertebrates in Nama limestones, and was planning to discuss results thus far at the PSSA meeting in Windhoek last September, but Laura's sudden illness back home in Irene prevented this. Anyhow, she is fine again now and Bob would like to thank so many Pal. Soc.members for their concern and good wishes. This Nama micro-fossil

search has focussed particularly on the Mooifontein limestone, fairly low down in the Nama sequence of southern Namibia and dating to about 550 Myr, when an ashfall resulted in rapid silicification of the limestone, together with micro-organisms on the seafloor at that moment. Several organisms have now been sufficiently well documented in thin-sections made by Laura, and in SEM images, to allow description, though conclusions about their affinities and relationships will surely be in doubt for some time to come.

Although silicified micro-organisms are certainly better than nothing, ideal preservation of cellular detail seems to have been in phosphatised limestones, such as those from China where Andy Knoll and his colleagues described such wonderful animal embryos last February in *Nature*. Search as we may, we have not found any phosphatised limestone in the Nama sequence as yet, but by a stroke of luck, Bob collected some samples of Otavi Group limestones in 1997, while on a visit to the Etosha National Park. On examination, these proved to be phosphatised, and contain remarkably well preserved micro-fossils of a sponge-like organism, which is now being intensively investigated. This limestone occurs in the Tsumeb sequence, above the Ghaub Formation glacial deposit from which Paul Hoffman and his colleagues published evidence last year for the "Snowball Earth" that engulfed the world 650-700 million years ago. It appears that the entire Otavi sequence is pre-Vendian, separated in time from the Nama sequence by another glacial episode. Anyhow, the Brains now have an additional reason to visit their son, Conrad, who lives with his wife and new baby close to the fossiliferous outcrop in the Etosha reserve, where Conrad is the Park vet.

## NEWS FROM THE BPI

The past six months have seen members of staff and students globe-trotting on various conferences and field-trips, interspersed with the more mundane day-to-day activities of educating the future Discoverers-of-Great-Things.

Back with us after completing his sabbatical is **Chris Gow**, who laments, "Blocks two and three of 1998 were not the best time to take study leave, but a bird in the hand and all that .....! There have been no less than four international conferences in South Africa with a direct bearing on palaeontology during this time: Gondwana 10 in Cape Town, Dual Congress (two in one) at Sun City and PSSA in Windhoek. It was certainly good to have a bunch of South American palaeontologists here in the department after Gondwana 10 as this is an area where we need to establish cooperation. (This rather prestigious bunch of palaeontologists included Claudia Marsicano from the University of Buenos Aires, Andrea Arcucci from the University of La Rioja, and Fernando Abdalaz and Max Langer, both from the IPUCRS in Porto Alegre, Brazil.) Other diversions included involvement in the making of two TV documentaries publicising our collections of mammal-like reptiles, the synapsids. One of these films starts with the excavation of a fossil in the field (where else?) and then follows up in the lab. with sequential inserts as preparation progresses - should be good. On the research front, I have been through all our *Tritylodon* (mammal-like reptile) material and teased out some useful anatomical detail with fine needles under a binocular microscope. Otherwise, I have revised and resubmitted one paper and have several more in various stages."

Hons. student **Ray Richter's** project on the dentition of *Tritylodon longaevus* was presented as a poster at the PSSA meeting. Ray was doubly fortunate in attending the 6th International Congress of Aerobiology in Perugia, Italy in September, and in being awarded a full scholarship to attend the 3rd Advanced Aerobiology Course held in the idyllic setting of Riva del Garda in the Italian Alps. Ray's comment, "This has been one of the most exciting happenings this year as I learnt various new techniques in sampling and analysing pollen and fungal spores."

**Marion Bamford** writes, "Fossil wood research on the conifers and angiosperms continues. A preliminary biostratigraphy of the conifer woods for the Karoo of South Africa has been applied to the Namibian



Karoo. This work was presented at Gondwana 10 and is in collaboration with several geologists from Wuerzburg University, Germany (Harald Stolhoffen, Herman Grill, Franke Holzforster, Ansgar Wanke, Dougal Jerram, Bertold Bangert), and Ian Stanistreet and Bruce Rubidge.

I also attended the PSSA Conference presenting a paper on Tertiary angiosperm woods from southern Africa. This database is growing steadily and is useful for dating sediments and interpreting palaeoclimates. The post-conference field-trip along the West Coast examined Cenozoic deposits of fossil ostrich egg shells, rodents, large mammals and wood, mostly of Miocene age. We visited sites in the Namib-Naukluft Park at Awasib and Haiber, and also in the Sperrgebiet at Elisabethfeld, Langental, Arrisdrift and Auchas, courtesy of John Ward of De Beers. More wood collected from Orange River deposits will be processed in due course, courtesy of Richard Lewis. The field trip was organised by Martin Pickford and Brigitte Senut of the Natural History Museum in Paris. Their team does field work in the area each year and they have built up a large collection of fossils which are now on display in the Geological Survey in Windhoek and the Museum in Oranjemund."

**Rosie Adendorff** is Marion's PhD student: her project involves the characterisation and identification of the *Glossopteris* flora of the Permian in a number of localities across the Karoo Basin of South Africa. Two localities have been selected to date. The first of these is a brick quarry at Lawley, to which Marion, Richard Lewis and Rosie have made two fossil-collecting trips. The team also visited four open cast coal mines in the Witbank-Middleburg area. One of these mines yielded excellent material and has consequently been identified as Rosie's second study site. Rosie also attended Gondwana 10, followed by an 11-day field trip organised by Drs Heidi and John Anderson from the National Botanical Institute in Pretoria. This 'Gondwana Alive' field trip bisected the country, from Cape Town to the Kruger Park, and exposed participants to a broad range of both extant and extinct plants. Illness prevented Rosie from attending the PSSA Conference; Marion presented a paper on her behalf.

**Mike Raath** recently went through the heart-wrenching step of returning to the Natural History Museum in Zimbabwe all the material of the small dinosaur *Syntarsus* which has been in his care for the past 12 years on loan. For him this was almost like losing a son, as he and this small dinosaur have been closely associated since he excavated the first specimen back in 1963! Although he says he is relieved no longer to carry the responsibility for looking after this extremely important and fragile material - which now falls to the Curator of Palaeontology in Bulawayo, Darlington Munyikwa (who completed his Honours in our department a few years ago) - there is a major drawback in that the steady stream of foreign visitors who ask to see the material on their stopovers in Johannesburg will now have to consider quite a major detour if they want to see it.

With the help of Ray Richter Mike has carried out a complete physical check of the entire fossil holdings in the Karoo Vertebrate Fossil Collection, and the final stages of reconciling missing specimens against the loan registers and what it being used by individual researchers is currently underway. By the end of the year we will at last be in a position to completely update all of the storage location information in the computerised database for this collection, so that researchers' queries about our holdings and about the availability of specific specimens will be immediately answerable. We hope that this will considerably improve access to the collections for researchers.

**Bruce Rubidge** reports that Gondwana 10 was a great meeting . He was a co-leader (together with Roger Smith, John Hancox and Octavian Catuneanu) of the Trans-Karoo excursion which covered the palaeontology, sedimentology and depositional environments of all the major stratigraphic units of the Karoo. James Kitching led the excursion for one day in the Graaff-Reinet area and he and Betty joined the party for dinner at the Drostdy Hotel in Graaff-Reinet that evening. The participants were all thrilled to be able to meet with James, the doyen of Karoo palaeontology, in the field. One of the party, Jim Collinson from Columbus Ohio, last saw James on that pioneering trip to the Antarctic

in 1970 when they collected fossils from the *Lystrosaurus* Zone! So the namesakes of the Antarctic landmarks, Kitching and Collinson Ridges, met again on Karoo rocks after 28 years, but this time in South Africa.

Together with a team of geologists from the Universities of Wuerzburg (Frank Holzforster and Harold Stollhofen) and Liverpool (Ian Stanistreet) Mike Raath and Bruce have prepared a description of the first Namibian dinosaur recently discovered by Frank. Collaborative research on the Karoo with Octavian Catuneanu (Rhodes University) and John Hancox has led to the establishment of a new development model for the Karoo Basin which will shortly be published in Basin Research. Preparation of the skeleton of the basal tapinocephalid dinocephalian is slowly reaching the final stages after 14 years. Bruce plans to take a six-month sabbatical next year to describe the specimen which is the most complete dinocephalian known and has all the vertebrae preserved.

Our postdoctoral fellow, **Sean Modesto**, continues his investigation of the interrelationships of anomodont therapsids. With co-authors Johann Welman of the National Museum in Bloemfontein, and Bruce Ribidge, Sean has submitted a preliminary description of a new basal anomodont (which they excavated earlier in the year in the Eastern Cape) to Proceedings of the Royal Society of London. They are further collaborating on analysis of several more of these animals, also new and collected in recent years, and on a description of a new tiny captorhinid reptile that Sean discovered in the *Tropidostoma* Assemblage Zone. This he found while on the Trans-Karoo II, the nine-day road odyssey that followed Gondwana 10.

**Elizabeth Latimer** is busy writing up her PhD thesis, and hopes to be finished the long haul at the end of the year. She went to the Conference of the Society of Vertebrate Palaeontologists '98 in Utah, and received valuable feedback on her Rhinesuchoids. While there Elizabeth had "the opportunity of playing in the snow for the first time, where she was outvoted and settled for building a snow dinosaur rather than a platbekpadda!" Maybe next time, Elizabeth?

Our palynology PhD student, **Andrea Sanderson**, reports that she has been consumed by her preliminary efforts to sort out the Late Cretaceous/Early Tertiary palynomorphs on slides provided by SOEKOR for her project, which will focus on a biostratigraphy for this period, based on two offshore boreholes. Andrea presented a poster at the PSSA Conference, and then joined the Namibian field-trip.

Our other pollen people, **Sue de Villiers** and **Ann Cadman**, both attended the Pollen and Spores Symposium at Kew in London in June. Sue visited Joey Coetzee, now retired in Somerset West, to compare notes on Tertiary palynology. She also hosted the Australian palynologist, Mary Dettman, for a day during Gondwana 10. Mary is an expert on the Proteaceae, and fortuitously they were able to take in a protea show running in Cape Town at the time. Otherwise, Sue's work is progressing on west coast pollen, with the Eocene now completed and the Cretaceous ongoing.

Ann presented a paper on invitation at the Pan African Workshop on Asthma, Allergy and Immunology in Botswana. She and Richard Lewis then made a whirlwind five-day tour of our country, setting up seven pollen/spore samplers in major centres. This is contractual work for a pharmaceutical company, the data being correlated with patients symptomatology as a result of respiratory allergy. Ann was joint-organiser of one of the symposia at the 6th International Congress on Aerobiology, held in Italy in September.

**Marion Duncan** and **Joseph Fink** (of Josemar), and our very own Builder-of-Monsters, **Marvin Carstens** have been spreading the word around the country at still more Year of Science and Technology Focus Weeks. In the latter half of this year they spent exhausting times in Nelspruit, Kimberley and Pietersburg. They report that there seem to be an awfully large number of very, very blank faces out there. Marvin is in a state of semi-mourning, as his pets returned from their last trip somewhat the worse for wear - apparently they don't take too well to flat-beds and pantechnicons. The last of the Focus Weeks will be

Gauteng's, to be held in Vereeniging.

One of the social highlights of the year for the BPI was the renaming of our palaeontology museum as The James Kitching Gallery in August. This very special event, during which our museum was formally dedicated to Oom James and his years of dedication to both the university and palaeontology, was a gala-event hosted by our Vice-Chancellor, Prof Bundy. Our guest list included both luminaries and faces from the past, some of whom had not seen James for many years. It was an evening of both enjoyment and nostalgia.

Other colleagues who are collaborating with staff and students in our department, and who have visited us during the past six months have included the vertebrate palaeontologists Matt Sponheimer - Rutgers University, Doug Erwin - National Museum of Natural History, Washington DC, John Rigby - Queensland University, Raoul Mutter - University of Zurich, Gillian King - Cambridge University, Arthur Cruikshank - Leicester Museum, Anne Warren - La Trobe University, and palaeobotanists and palynologists Lisa Boucher - University of Nebraska, Stephen McLoughlin and Anne-Marie Tosolini -University of Melbourne, and Christian Mulder - University of Utrecht.

**Ann Cadman**

## **BILLY DE KLERK, ALBANY MUSEUM, GRAHAMSTOWN**

The second half of 1998 has truly been a bumper one from a palaeontology perspective. It started off with me attending the Gondwana-10 Conference at UCT in Cape Town where I was able to catch up with many US and SA colleagues. Apart from the excellent palaeontology papers, the social programme was also a blast. While at the conference I was able to spend a free day at the South African Museum with Dr Cathy Forster working on "Kirky" to finalize the paper on this new Cretaceous theropod dinosaur. We will have a paper submitted before the end of November. After the conference the palaeobotany

post-conference tour delegates passed through Grahamstown where I entertained them for a morning at the Museum. The tour was arranged and lead by Drs Heidi and John Anderson.

Our palaeontology displays at the Museum are steadily increasing with our artist, Gerhard Marx, building a full scale reconstruction of a most convincing *Massospondylus* (in quadrupedal stance). He has completed one fiber glass model from the molds and will finish two others by the end of the year. One model will go to the Museum of the Council for Geosciences in Pretoria (they helped sponsor the materials) and the other we plan to sell to the Namibian Geological Survey to compliment their newly discovered, one and only dinosaur, *Massospondylus*, that was recently discovered. They have a lovely Museum that needs to be filled out! I'm rather sad to report that Gerhard Marx has resigned from the Museum with effect from March 1999 as he has been offered a position in Tucson, Arizona in the US. We will be loosing a fine palaeontology artist!

I have devoted very little fieldwork to the lower Cretaceous Kirkwood beds this half year, but some considerable time was spent in the Karoo - initially checking on fossil sites reported by farmers and road builders. In mid-August I spent four days in the Tarkastad area and was rewarded with the discovery of a partial skull of *Cynognathus*, which was made by Mr Peter Chin at "Glen Lex" north of Tarkastad. Over next few days I continued to survey the surrounding farms, particularly the adjacent farm "Ravenscliff", where the East London Museum specimen of *Kannemeyeria* was found in early 1940. Dr Marjory Courtenay-Latimer had recently said to me that I should have a look on this farm as she still remembered other dicynodont fossils exposed on the farm in the 1940's. Well, a number of promising fossils were found - the best being a single large fragmented skull of *Kannemeyeria* (in 70 pieces). We have been preparing and reassembling this specimen which is quite magnificent and will enhance our Karoo Fossil display area.

I also investigated a reported "footprint" at "Sante Sana" a private game

farm at Petersburg (45km east of Graaff-Reinet). Mr I.C. Els, a contract road builder working on the property, had reported what he believed were some form of tracks in sandstone. A well-preserved Permian (c.255 million year old) palaeosurface containing the tracks of at least six large quadrupedal animals, and many smaller tracks of smaller vertebrates and invertebrates was identified. James Kitching was able to join me in the field for a day and the trackmaker has provisionally be identified as *Aulacephalodon* - a common dicynodont in the *Cistecephalus* Assemblage Zone. This animal would have been about the size of a young hippo. Several skulls and partial skeletons of this animal have already been collected from the area. So far I have excavated a large part of the mudstone overburden away and am in the process of mapping and documenting the palaeosurface. The owners of the property have provided full support for the conservation of the site as the tracks are presently in danger of eroding away. All possible means are being investigated to preserve this important trace fossil. I prepared two latex casts from the more interesting parts of the trackway and I'm now busy planning a more permanent fibre-glass cast to be made from the latex peals.

In September, after three days of whale watching in Hermanus, I met up with colleagues from the SA Museum and travel to Namibia to attend the 10th PSSA Conference which was held in the offices of the Namibian Geological Survey between 14 - 17 September. I presented two papers: (1) a review of the dinosaur work being done in the lower Cretaceous Kirkwood Formation and (2) a report on the dicynodont trackway at "Sante Sana" near Graaf-Reinet. The post-conference tour to parts of the southern Namib desert to see the Mesozoic aeolianites and the many mammal and ostrich fossils preserved in the Namib-Naukluft and Sperrgebiet areas of south western Namibia, was a decided highlight of the year. Thanks to all the members of the society for making this PSSA'98 such a memorable success!! Now for Pretoria '2000! See you there!



## FIONA EVANS, UNIVERSITY OF STELLENBOSCH

We are overdue for an update on events from Bellville/ Stellenbosch due to a mix-up over some articles in the last couple of editions of Palnews!

It is sad to note that John Almond has left the Council for Geoscience and is now happily sipping Sangria in the heart of Salamanca, Spain. South Africa has lost its only ichnologist and one of the few invertebrate palaeontologists! A lot of what I have learnt about sedimentology in the field, trace fossils, photography and invertebrates, I owe to him, and I am sure most of you have been influenced by his incredible enthusiasm for palaeontology. John has a number of papers to complete here with local and international colleagues, including myself, so please look out for Devonian fish publications among others! John, his fiancée and myself joined up with Deville Wickins and entered the great Tankwa Karoo to find more fish fossils that were reported from the Skoorsteenberg Formation. Although there was a definite whiff of fish in the rocks (or was it brought on by the intense heat of the day?!), we only had found plant material by day's end. Microfossil remains of fish might also be found in these turbidite rocks.

During April I spent a month in the field with a sedimentologist from Simon Fraser University, Canada, logging sections and collecting tonnes of fish, plants and trace fossils from the Eastern and Western Cape. We also took in the Oosthuizen and University of the Free State fossil collections, and met up with Gideon Groenewald in the field (thank-goodness for Gauteng earrings!!). Gideon showed us many of his field areas and we got to work, looking at the sedimentology of the units and the structures of these incredible burrows. My knowledge of trace fossils has increased immensely over the few years working with John, and now also with James MacEachern and Gideon Groenewald. We hope to publish a paper soon on the vertebrate traces from the Upper Beaufort in the Venterstad area in particular, a paper which we presented at the Gondwana Symposium. The other talk I presented at the Gondwana Conference on the fish taphonomy has been written up and submitted to



the Journal of African Earth Sciences. I have a paper written jointly with Patrick Bender appearing in the Records of the Western Australian Museum possibly by the end of the year, and another fish paper in proof stage in *Palaeontologia africana*. I was also kept busy with a guidebook prepared jointly with John Almond and Ed Cotter of Bucknell University, Penn. for the pre-conference field trip for Gondwana on the Cape Supergroup palaeontology. We lead jointly a troupe of 10 international invertebrate/ pollen/ trace fossil/ vertebrate palaeontology and sedimentology enthusiasts into the Cederberg, and Klein Karoo. John later also took a strong-hearted team to Namibia, to join some "hard rock geologists", lead by Piet Gresse, and Hartwik Frimmel, and they took great pleasure in the rare and privileged opportunity of observing the Vendobiota of the PreCambrian/ Cambrian. During this time I lead Dr John Marshall to little known areas of the Eastern and Western Cape on a 5 day field trip during which time we collected pollen samples to try and firm up the date of the Devonian/ Carboniferous boundary in South Africa. The results look positive. Furthermore, I also took the opportunity to simultaneously collect in what also happened to be my field area on that trip- mainly trace fossils and plants.

I spent nearly 3 months in Canada this year, working at Simon Fraser University on aspects of my thesis, including drawing my logs on computer by means of a great new programme called AppleCORE (coming out soon in IBM version). I had the wonderful opportunity to visit the Tyrell Museum in Alberta where I studied their fantastic fish collections and gaped at the dinosaurs in amazement, as well as two smaller museums on the Gulf Islands in British Columbia. I was also very privileged to visit the Walcott quarry in the Burgess Shale Formation (Mid Cambrian) and be shown around the site by Des Collins, Royal Ontario Museum, Toronto. I met Johann Welman, Johann Neveling and Roger Smith at Salt Lake City during the Society of Vertebrate Paleontology Conference held there in September. The talks and exhibits were very interesting and of a very high standard, and the palaeo community is rather sizable! Just before I returned to South Africa, I also visited the Saskatchewan Natural History Museum, which have excellent

displays and impressed upon me the cosmopolitanism of some of the Ordovisean shelly fossils, and the incredible geological upheaval that occurred in large parts of North America. Currently I am working on a huge collection of palaeoniscoid fish from Namibia, and this will keep me out of mischief for a while!

## THE KAROO LABORATORY, S.A.M., CAPE TOWN

A very full year to report on so I'll keep it brief:

### Yeast '98 Science Expo - 7-12 March:

Despite the lack of forward planning, no budget at all, and a last minute change of venue, the Earth Sciences Division managed to put on a very creditable display at the Year of Science and Technology Expo in the Waterfront. A small team of our more enthusiastic staff members manned two "Demo Wagons" for 8 hours a day for the full duration of the Exposition. Our displays on Karoo Fossil Reptiles and the West Coast Fossil Park (including a cast of the Langebaan hominid footprints) were novel, colourful, informative and interactive. The buzz of the preparator's drill, and the commentary from a professionally made video on Karoo fossils as well as our specially designed SA Museum T-shirts attracted attention to our display. An estimated 3000 schoolchildren, numerous members of the public and several journalists and TV crews visited our stand. A brief insert of our display appeared on SABC TV news broadcasts during Western Cape's YEAST week.

### Fieldwork on the Permo-Triassic Boundary - 15 April-6 May:

The complete Karoo Palaeo team of Annelise Crean, Hedi Stummer, Kerwin van Willingham, Georgina Skinner, Paul October, Roger Smith and student Jennifer Botha spent 3 weeks under canvas in the Fraserburg and Graaff Reinet districts. The first week was spent in Oukloof Pass near Fraserburg investigating the potential for a fossil trail in a new private game park that contains one of Roger Smith's special taphonomic study sections. The study outcrop was last cleaned of fossils 10 years ago when

78 in situ fossils were logged, this year it yielded another 70 in situ specimens including a complete and unweathered skull of *Ictidosuchus* - a small and very rare insectivorous therapsid. Each fossil was taphonomically assessed during its excavation when details of the attitude, articulation, preservation, size, colour and host sediments are logged along with a GPS reading of its precise location. All this information will be made available to the collections database team. Another preparable specimen, a fully articulated *Diictodon* skeleton was left behind to be collected later. Moving to Lootsberg Pass, north of Graaff-Reinet, the rest of the trip was spent working on outcrops that span the Permian-Triassic boundary. The aim was to find enough fossils to define the extinction event and use sedimentological evidence to look document the environmental changes that may have caused the mass extinction. This section had previously been sampled for palaeomagnetic and stable-carbon isotope stratigraphy in collaboration with the University of Washington. This was to ensure that this interval is indeed synchronous with the globally accepted Permo-Triassic boundary. In addition, Dr Smith logged a sedimentological section of the Lootsberg Pass exposures to be included in the guidebook for delegates of the Trans-Karoo II field excursion in July this year.

Collecting yielded several good skulls of *Dicynodon*, *Aulacephalodon* and a gorgonopsian as well as the prize specimen of the trip - a complete articulated 2 metre-long *Pareiasaurus* skeleton and skull in pristine condition. After spending the last day uncovering the fossil it became apparent that the animal was buried with its skin intact! Not only was the 2 metre-long skeleton nearly complete in a crouching pose but it was covered with numerous interlocking bony plates (called osteoderms), which were originally embedded in the skin on the back of the animal. Possibly, the best-preserved specimen of this species that had ever been found, this fossil had to be excavated in a single block before the next thunderstorm washed it away. Three weeks later the team were back in their camp on Doornplaas. The task of excavating fell to Roger Smith, Paul October, Kerwin von Willingh and Georgina Skinner. The problem of hauling the estimated 700kg fossil off the mountain was given to

Derek Ohland along with as many helpers as he could muster. The owner of the farm, Mark Brodie, liaised with the local farmers to procure a portable petrol driven rock hammer which Paul and Roger used to dig a trench around the skeleton. After five noisy, dusty days of hammering and plastering, the fossil which we nicknamed Delilah (because not even Samson could move her), was completely encased in a Plaster-of-Paris jacket and ready to be dragged off the mountain. An air-lift would have been ideal but neither commercial companies nor the Air Force were interested in doing it for nothing. The response from one helicopter pilot, when asked if he could lift a block of rock off a mountain was "Why don't you just use dynamite?" This left us with only one option - muscle power. The farmer generously arranged to put a gate in one of his fences, which allowed us to make a track to the base of the mountain. We were able to drive our 4x4 up the slopes to within 400 metres from the fossil but we were still not sure whether it could ever be moved let alone carried out of the gully. On the morning of Youth Day, Derek had arranged for 20 fit young men from Graaff Reinet and the neighbouring farms to converge on our camp. Driven more by bravado than the promised cash reward, the men half-lifted, half-dragged Delilah in 30-second surges of very vocal effort. Slowly but surely the great white lady was moved out of the gully, down the mountain and into the bakkie. Three weeks of trepidation were over in 90 minutes of brute strength and profanity. The fossil now resides safely on a specially strengthened table in the Karoo Palaeo lab and we now have to wait a couple of years whilst the preparators reveal Delilah's innermost secrets, after which she should be ready for her first public appearance in 250 million years.

#### Report on Gondwana 10 Conference:

The 10th International Conference of Gondwanan geology was held in UCT's middle campus from 28/6-4/7. As an experiment the first day was given over to a symposium dedicated to Alex Du Toit, in which 14 invited keynote speakers gave state-of-the-art-type presentations in their field of expertise.

A second innovation, promoted by Maarten De Wit, was the

Pan-Gondwana Students scheme which paid for 27 third year geology students from Angola, Argentina, Botswana, India, Kenya, Madagascar, Tanzania, Zimbabwe and South Africa to attend the conference. The aim was to spark the research interest before their final year in an effort to generate more research students. Each invited student was given a tutorial by one of the keynote speakers and took part in a special field excursion. In his opening speech, Dr Khotso Mokhele, President of the FRD, was very positive about these efforts to generate new research blood. FRD was one of the main scientific sponsors of the Conference. For three days, the main body of the conference presentations were split into 2 parallel sessions which, as things turned out, could have been sub-titled Geology and Palaeontology. The division of these two disciplines was unfortunate but necessary considering the venue and the logistics of coping with over 350 presentations in 3 days. I presented two oral and a poster presentation and Fiona Evans, presented 2 oral papers. Most of the presentations were topical, high quality and well delivered. Wednesday was given over to local field excursions which were unfortunately washed out by heavy rain all day. The Museum's Earth Sciences Division hosted some 50 delegates on that day. The Conference ended after a Saturday morning summary/report back session by the keynote speakers (those that were left) and a discussion as to the next venue- possibly aboard ship in Antarctica?

#### Trans Karoo II:

100 million years of changing terrestrial environments in southern Gondwana For nine days following the Gondwana 10 conference, I took a group of 24 delegates from 11 countries on geological excursion of the Karoo Basin. Co-leaders were Bruce Rubidge and John Hancox from Wits University and willing drivers Hedi Stummer, Johann Neveling and Octavian Catuneanu. This is the advertised description for the trip: We travelled in a convoy of 5 rented Microbusses staying at Laingsburg, Beaufort West, Victoria West, Graaff Riet, Aliwal North, Barclay East, Port Elizabeth and Wilderness. Each day filled with geology and fossils and evenings dominated by the World Cup. A comprehensive 117-page guide book with detailed description of each stop en-route was put

together by myself and distributed to each participant. Prof. James Kitching - the doyen of Karoo vertebrates, spent the day with us in his home range around Graaff Reinet and relived old times when he led the first Trans-Karoo field trip back in 1970. The feedback from delegates has been very favorable and we ended up breaking even on the budget. Leading a group like this for 9 days is exhausting, nevertheless, I personally benefitted from sustained interaction with like-minded researchers from other parts of Gondwana, especially the Brazilian and Argentinian contingent. Plans were made with John Hancox (Wits) and Claudia Marsicano (Argentina) to collaborate on a project to relocate and describe dinosaur footprint occurrences in Lesotho sometime in the second half of 1999.

#### PA Muscun display:

In August the Karoo team spent a week in Prince Albert mounting a special exhibition honouring Roy Oosthuizen, a well known amateur fossil collector who lives in the region. Unfortunately we were not able to display his best specimens which are already on display at his farm, Zwartskraal, near Klaarstroom. Nevertheless, the townsfolk are well pleased with their new gallery.

#### PSSA Windhoek:

In September Hedi, Herbie, Jenny Botha (UCT student) and I travelled to Windhoek for the PSSA conference. Although the number of participants was less than usual (40) there were advantages in that speakers had a little longer to deliberate and discussions could develop into meaningful arguments instead of the usual perfunctory remarks. I presented 2 papers and a poster, Jenny did a poster and Herbie gave a paper. Many thanks to Patrick Bender for all his help with setting up the venue and compiling the abstracts volume. Also thanks to Hedi for her help in organising the post-conference field excursion to Sperregebiet with Martin and Brigitte and for looking after the conference finances.

#### West Coast Fossil Park Launched:

Despite inclement weather the WCFP was launched with a big bash at the



Langebaanweg site on 22 September. Some 200 guests travelled to the Park to view the ongoing excavation into a bonebed of Early Pliocene vertebrates. They were treated to a long lunch in a giant marquee with Pallo Jordan and Evita Bezuidenhout as entertainment along with several other speakers from SAMANCOR and the South African Museum. Pippa Haarhoff is currently based at the site in the newly renovated Education Precinct which amongst its facilities has accommodation for up to eight students/scientists. At the moment, the site is open for pre-arranged groups only. It is hoped that we can cope with casual visitors and tourists by the middle of next year. Excavations are planned to continue from mid April to June next year - anyone with an interest in doing some research or even just volunteering to help out should contact Pippa on 082 694 1775.

SVP Utah - 25 September - 8 October:

Immediately after the launch I flew to Salt Lake City to participate in a 4 day field trip to classic Jurassic dinosaur localities of Utah and Colorado. Saw lots of bonebeds and at Dinosaur National Monument and Cleveland Lloyd quarry I got some good ideas as to how best display embedded bones to visitors. The conference was held at Snowbird, a superb venue high in the mountains behind Salt Lake City. We were fortunate to have a heavy snowfall to remind us why its aptly named. The conference was well organised and much less hectic than previous ones - there seemed to be a lot more time for listening and learning and meeting people. I gave a paper with Ken McLeod on the latest isotope stratigraphy of P-Tr boundary in the Karoo Basin. On the way home I was invited by Callum Ross to give a Palaeobiology Seminar at Stony Brook Department of Anatomy. There I was able to get up close to *Majungasaurus* and other beasts from Madagascar that were collected by Cathy Forster and party last year.

P-Tr Bethulie/Friends Beaufort West - 4-22 November:

Back to the P-Tr boundary again, this time with Prof. Peter Ward (University of Washington) to look more closely at the "overlap" zone to check the associated fauna and look for sedimentological evidence for the

causes of the end-Permian extinction. Five days in Lootsberg Pass followed by 10 days on the Bethulie section yielded good results which were written up in the field as part of a major NSF grant proposal. Hopefully this will bring enough funds for a 3 year multidisciplinary research project on the Karoo P-Tr boundary encompassing magnetostratigraphy, detailed biostratigraphy and sedimentology of the entire basin. Special fossils found on this trip included a couple of *Moschorinus* skulls, one with partial skeleton, an amphibian bonebed with many small skulls, a very large *Dicynodon* skull minus lower jaw, a big *Rubidgea* skull and the crowning glory - a fully articulated skeleton of what appears to be a large gorgonopsian - probably *Rubidgea*. The skull is 50 cm long and the skeleton about 2.5m long- it is going to be a whopper jacket but luckily it sits on the flat in the middle of a track! Our first task in March 1999 will be to excavate this beauty, nicknamed "Simba", before finishing our sections on Lootsberg Pass. The last 5 days of the field trip were spent with 36 Friends of the Museum in Beaufort West doing fossil prospecting on local sites such as Putfontein, Dunedin and Leekloof and La-De-Da. When the heat began to take its toll we repaired to the Karoo National Park's air conditioned auditorium to watch the video made last year for British TV's Equinox on the P-Tr extinction with lots of Karoo footage.

Cheers, Roger

#### EMAIL ADRESSES ON THE INTERNET - MIKE RAATH

I recently enquired to see if one had to be a member of SVP to be included, and was informed membership is NOT a requirement - they are keen to make it as comprehensive as possible. So I submitted the BPI names and addresses and I was asked to encourage others to do the same. The database (which is simple and searchable by name or email address, or even parts thereof) is available at:

<http://www.museum.state.il.us/svp/vpmail>



Additions (Surname, first name, email address) should be sent via email to David Polly at:

**d.polly@qmw.ac.uk**

I think it would be good to have as many South African Vps as possible included in that database, so I would be glad if you could include something in the next Pal News to encourage them to submit their details.

## **PSSA WEBPAGE**

Dear PSSA Member (on the www)

The URL address is:

**<http://www.ru.ac.za/albany-museum/pssaindx.html>**

OR **<http://www.ru.ac.za/departments/am/pssaindx.html>**

Once I've made the suggested alterations I'll post these pages live and use a more appropriate address - something like <http://www.pssa.ac.za>  
Cheers for now - I look forward to you comments.

**Billy de Klerk**

## **NATIONAL MONUMENTS COUNCIL PERMITS**

**Jeanette Deacon** is busy updating permits. Please check your state of affairs. Contact her at the National Monuments Council, Cape Town, if there are any problems or queries.

# NATIONAL MONUMENTS COUNCIL

## LIST OF GENERAL PERMITS FOR PALAEOONTOLOGY AND METEORITES

2 February 1999

PERMIT NO.	FILE NO.	PERMIT HOLDER	AREA	ISS.	EXP.	REP.
METEORITES						
	9/4/7/2/1	T Gould	RSA	not issued		
PALAEOONTOLOGY						
8/93/12/05/60	9/4/3/1/2/1	Geological Survey	RSA	17.5.90	1.1.97	18.2.91 8.1.92 7.9.92
	9/4/3/1/2/2	R J Rayner	RSA	24.7.90	1.8.93	5.4.90 18.9.91
8/94/09/04/60 8/97/10/12/60	9/4/3/1/2/3	BPI	RSA	14.9.90 5.11.97	1.9.97 1.11.00	1.8.91 1.8.92 1.8.93 1.8.94 1.8.95 1.8.96 1.8.97
8/94/10/07/60	9/4/3/1/2/4	J Kitching	RSA	3.10.90	1.10.97	4.10.94
	9/4/3/1/2/5	Rhodes Geology	RSA	9.10.92	1.10.95	26.9.90 2.9.91 25.8.92 15.11.93 25.8.94 14.8.95 6.2.96 10.7.97

	9/4/3/1/2/6	Univ OFS Geology	RSA	29.1.91	1.2.94	17.1.92 21.6.93 7.2.94 31.1.95
8/94/12/02/60 80/97/11/07/6 0	9/4/3/1/2/7	Albany Museum, W J de Klerk	East. Cape	10.12.91 20.11.97	1.12.97 1.12.00	30.11.92 15.11.93 22.11.94 30.11.95 19.12.96 18.11.97
	9/4/3/1/2/8	F Grine	Tvl/ N Cape	12.12.90	1.1.94	
8/94/09/10/60	9/4/3/1/2/9	M A Raath	RSA	17.1.91	1.9.97	16.9.94
	9/4/3/1/2/1 0	Univ Durban Westville	RSA	3.3.92	1.3.95	
8/94/09/11/60	9/4/3/1/2/1 1	Univ Natal Geology	RSA	20.3.91	1.9.97	
8/94/10/01/60	9/4/3/1/2/1 2	UPE, Zoology GJ Rossouw	RSA	27.3.91	1.10.97	30.4.93 1.11.94
	9/4/3/1/2/1 3	J S Brink	OFS	2.4.91	1.4.94	
8/94/09/12/60	9/4/3/1/2/1 4	M E Anderson	RSA	2.4.91	1.9.97	22.8.94 14.9.95 4.3.96 10.9.96 17.9.97
8/97/10/04/60	9/4/3/1/2/1 4	M E Anderson	RSA	7.10.97	1.10.20 00	
8/95/06/07/60	9/4/3/1/2/1 5	J Pether	Cape	24.7.91	1.7.98	16.5.95
8/95/03/08/60	9/4/3/1/2/1 6	H Klinger	RSA	23.8.91	1.4.98	

	9/4/3/1/2/1 7	J van den Heever	RSA	4.12.91	1.12.94	
8/94/10/06/60 80/98/06/01/6 0	9/4/3/1/2/1 8	R Smith	RSA	10.4.90 1.10.97	1.10.97 1.10.00	3.5.92 7.10.94 3.6.98
	9/4/3/1/2/1 9	J Welman	RSA	19.5.92	1.6.95	12.5.92 1.6.93
	9/4/3/1/2/2 0	H Anderson	RSA	4.1.93	1.1.96	
	9/4/3/1/2/2 1	J Anderson	RSA	4.1.93	1.1.96	
8/93/08/03/60	9/4/3/1/2/2 2	G Groenewal d	RSA	18.8.93	1.8.96	
8/94/05/06/60 8/94/12/04/61 80/97/03/09/6 1	9/4/3/1/2/2 3	M Pickford	RSA N Cape	3.6.94 27.4.97	1.7.97 1.4.00	30.7.95 3.1.96 6.1.97 16.1.98
8/94/10/09/60 80/98/02/06/6 1	9/4/3/1/2/2 4	J N Theron	SW Cape	2.11.94 18.2.98	1.11.97 1.3.01	30.9.94 9.7.96 26.8.97 16.2.98
8/95/03/01/60	9/4/3/1/2/2 5	F J Evans	E&W Cape	17.3.95	1.4.98	14.11.95 4.11.96 22.1.97
80/95/05/07/6 0	9/4/3/1/2/2 6	L Berger	Wel- kom/ Virgin ia	11.5.95	1.6.98	5.11.97
80/95/06/06/6 0	9/4/3/1/2/2 7	P Haarhof	SW Cape	21.6.95	1.7.98	
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# NATIONAL MONUMENTS COUNCIL

## LIST OF SPECIFIC PERMITS FOR PALAEOLOGY 12 February 1999

PERMIT NO.	FILE NO.	PERMIT HOLDER	SITE	ISS.	EXP.	REP
	9/2/059/3	M Raath	Oakleigh	17.7.90	1.8.93	
	9/2/316/9	D van Heerden	Harrismith	30.1.91	1.2.94	
	9/2/316/9	S du Plessis	Harrismith	30.1.91	1.2.94	
8/93/06/01/60	9/2/056/12	R Liggitt	Besemfontein	5.7.93	1.7.95	
8/93/07/10/51	9/2/415/11	N Hearder	Ladysmith	9.8.93	1.8.95	
8/93/11/12/61	9/2/042/14	M Avery	Langebaanweg	17.11.93	1.12.96	
8/94/11/04/61	9/2/077/1	A Wheeler	Queenstown	25.11.94	1.12.97	
8/96/05/03/61	9/2/101/6	H Laubscher	Ongegund	13.5.96	1.5.98	
80/97/06/04/61	9/2/419/5	S Kitto	Richards Bay	17.6.97	1.7.99	
80/98/09/04/61	9/2/042/14	T Hart & D Halkett	Langebaanweg	15.9.98	1.10.99	

	9/4/3/1/2/1 7	J van den Heever	RSA	4.12.91	1.12.94	
8/94/10/06/60 80/98/06/01/6 0	9/4/3/1/2/1 8	R Smith	RSA	10.4.90 1.10.97	1.10.97 1.10.00	3.5.92 7.10.94 3.6.98
	9/4/3/1/2/1 9	J Welman	RSA	19.5.92	1.6.95	12.5.92 1.6.93
	9/4/3/1/2/2 0	H Anderson	RSA	4.1.93	1.1.96	
	9/4/3/1/2/2 1	J Anderson	RSA	4.1.93	1.1.96	
8/93/08/03/60	9/4/3/1/2/2 2	G Groenewal d	RSA	18.8.93	1.8.96	
8/94/05/06/60 8/94/12/04/61 80/97/03/09/6 1	9/4/3/1/2/2 3	M Pickford	RSA N Cape	3.6.94 27.4.97	1.7.97 1.4.00	30.7.95 3.1.96 6.1.97 16.1.98
8/94/10/09/60 80/98/02/06/6 1	9/4/3/1/2/2 4	J N Theron	SW Cape	2.11.94 18.2.98	1.11.97 1.3.01	30.9.94 9.7.96 26.8.97 16.2.98
8/95/03/01/60	9/4/3/1/2/2 5	F J Evans	E&W Cape	17.3.95	1.4.98	14.11.95 4.11.96 22.1.97
80/95/05/07/6 0	9/4/3/1/2/2 6	L Berger	Wel- kom/ Virgin ia	11.5.95	1.6.98	5.11.97
80/95/06/06/6 0	9/4/3/1/2/2 7	P Haarhof	SW Cape	21.6.95	1.7.98	
80/98/04/07/6 1	9/4/3/1/2/2 8	E van Jaarsveld	Sen- kal Dist	9.4.98	1.4.99	

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	9/2/316/9	S du Plessis	Harrismith	30.1.91	1.2.94	
8/93/06/01/60	9/2/056/12	R Liggitt	Besemfontein	5.7.93	1.7.95	
8/93/07/10/51	9/2/415/11	N Hearder	Ladysmith	9.8.93	1.8.95	
8/93/11/12/61	9/2/042/14	M Avery	Langebaanweg	17.11.93	1.12.96	
8/94/11/04/61	9/2/077/1	A Wheeler	Queenstown	25.11.94	1.12.97	
8/96/05/03/61	9/2/101/6	H Laubscher	Ongegund	13.5.96	1.5.98	
80/97/06/04/61	9/2/419/5	S Kitto	Richards Bay	17.6.97	1.7.99	
80/98/09/04/61	9/2/042/14	T Hart & D Halkett	Langebaanweg	15.9.98	1.10.99	

**NATIONAL MONUMENTS COUNCIL**  
**RAAD VIR NASIONALE GEDENKWAARDIGHEDE**

**LIST OF EXPORT PERMITS FOR PALAEOLOGY**

Expired and no record of return in NMC files  
 and/or issued from 1989 to 12 February 1999

Permit no.	Applicant	Description	Issued	Expires	Report	Return
4/156	P Haarhoff to Smithsonian	Duinefontein	1.6.84			
4/172	C K Brain to J D Clark	Swartkrans 20 stone artefacts	1.6.86			Yes
4/186	H J Deacon to A von den Driesch	Klasies River - fish bone	1.10.92	29.1.93		
9/4/3/1 /3/1	J N Theron to R Aldridge	Boskloof plant fossils	1.8.95	8.11.93 1.7.99 1.7.02		9.7.96 4.1.98
9/4/3/1 /3/2	J N Theron to L Cocks, British Museum	Boskloof invertebrate fossils	1.8.93 1.8.96 1.7.99	8.11.93 10.11.94 9.7.96		
9/4/3/1 /3/3	J F Thackeray to H Schwartz	Permanent	1.10.93	29.1.93 Perm. export		
9/4/3/1 /3/4	A W Keyser to H Schwartz	Permanent	1.12.91	Perm. export		
9/4/3/1 /3/5	J N Theron to P A Jell, Queensland	Temporary export	31.12.94	9.7.96		28.4.94



9/4/3/1 /3/6	A W Keyser to J Hopson	Temporary export		1.3.94		
9/4/3/1 /3/7	J F Thackeray to Christopher Dean	Temporary export		1.6.92	1.11.94	Yes
9/4/3/1 /3/8	D M Avery to C S Churcher & C Howell	Temporary export		1.6.92 30.6.95		
9/4/3/1 /3/9	J W Kitching to J A Hopson	Permanent export	9.7.91	Perm. export		
9/4/3/1 /3/10	J Pether to GJ Vermeij	Temporary export		1.7.92		Yes
9/4/3/1 /3/11	S A Museum to State Museum Windhoek	Permanent export	1.7.91	Perm. export		
9/4/3/1 /3/12	G Avery to F Grine	Temporary export		1.7.92		Yes
9/4/3/1 /3/13	G Avery to A Brooks	Permanent export	1.7.94	Perm. export		
9/4/3/1 /3/14	G Avery to A Brooks	Permanent export	1.7.94	Perm. export		
9/4/3/1 /3/15	J N Theron to G Bergman	Temporary export	1.12.93	9.7.96 Extended 1.7.99		
9/4/3/1 /3/16	B Rubidge to M Benton	Temporary export <i>Owenetta</i> skulls	29.11.91	31.12.92		Jan. 1996

9/4/3/1 /3/17	B Rubidge to R Reisz	Temporary export 6 fossils	10.12.91	30.6.93		June 1995
9/4/3/1 /3/18	G M King to R Reisz	Temporary export 3 fossils	10.12.91	30.6.93 Extended to 30.12.95		
9/4/3/1 /3/19	G M King to E Gaffney	Temporary export	10.12.91	30.6.93		
9/4/3/1 /3/20	B Rubidge to J Hellenius	Temporary export	25.2.92	30.6.93		Jan. 1996
9/4/3/1 /3/21	J Welman to J Hellenius	Temporary export	27.2.92	30.6.93		
9/4/3/1 /3/22	S A Museum to J Hellenius	Temporary export	5.3.92	30.6.93 Extended 1.8.94		
9/4/3/1 /3/23	JF Thackeray to F Grine	Temporary export Swartkrans	15.4.92	1.5.93		
9/4/3/1 /3/24	G Avery to C Marean	Permanent export	Not issued			
9/4/3/1 /3/25	B Rubidge to P Quinney	Temporary export - Tobias cave	18.6.92	1.7.94		May 1996
9/4/3/1 /3/26	A Morris to S Pfeiffer	Border Cave	10.9.92	1.9.93 Perm. export		
9/4/3/1 /3/27	JF Thackeray to S Pfeiffer	Swartkrans flakes	13.8.92	1.12.92 Perm. export		
9/4/3/1 /3/28	JF Thackeray to Oxford Accelerator	Tuinplaas bone	18.8.92	1.12.92 Perm. export		

9/4/3/1 /3/29	no permit					
9/4/3/1 /3/30	R J Clarke to E Hare	Permanent export OES Sterkfontein	1.9.92	1.9.93		
9/4/3/1 /3/31	H Klinger to WJ Kennedy	Permanent export molluscan fossils	1.9.92	1.9.93		
9/4/3/1 /3/32	J N Theron to RPS Jefferies	Temporary export Echinoder- mata	14.12.92	1.1.94 Extended 1.1.97	10.11/ 94 29.2.95	
9/4/3/1 /3/33	J Kitching to A Warren	<i>Lystrosaurus</i> skull fragments	12.2.93	Perm. export		
9/4/3/1 /3/34	W J de Klerk to A Warren	Temporary export type specimen of <i>Laidleria</i> <i>gracilis</i>	11.1.93	28.2.94		Yes
9/4/3/1 /3/35	S A Museum to DB Norman	Temporary export Dinosaur from Ladybrand district	2.6.93 3.8.98	1.6.95 1.9.99		
9/4/3/1 /3/36	S A Museum to DB Norman	Temporary export Dinosaur from Dangers- hoek, Lesotho	2.6.93 3.8.98	1.6.95 1.9.99		

9/4/3/1 /3/37	G Kendrick	Late Cretaceous shell fossils from St Lucia	27.5.93	Perm. export		
9/4/3/1 /3/38	C MacRae to P A Jell	Temporary export Chiton - rare	9.6.93	1.6.95		
9/4/3/1 /3/39	J N Theron to P A Jell	Temporary export Bokkeveld ostracods	28.6.93	1.1.95	12.8.94	9.7.96
9/4/3/1 /3/40	J Pether to EM Harper	W Cape molluscs	29.6.93	29.6.93		Yes
9/4/3/1 /3/41	J Brink to R Grun	Tooth enamel from OFS sites	30.7.93	Perm. export	18.9.96	
9/4/3/1 /3/42	B S Rubidge to E S Gaffney	Fossil Chelonian skull	27.7.93	30.10.93		11.11.93
9/4/3/1 /3/43	S A Museum to RL Casanova	<i>Oudenodon</i> and <i>Lystrosaurus</i> skulls	18.8.93	Perm. export		
9/4/3/1 /3/44	B Rubidge to A Thulborn	<i>Owenetta</i> fossil	3.9.93	1.9.95		July 1997
9/4/3/1 /3/45	G M King to M G Bassett	<i>Diictodon</i> skull	9.10.93	Perm. export		
9/4/3/1 /3/46	C MacRae to R J Aldridge	<i>Promissum</i> <i>pulchrum</i>	23.11.93	1.12.96		
9/4/3/1 /3/47	B Rubidge to R Reisz	<i>Milleretta</i> and <i>Procolophon</i>	1.12.93	1.12.94		13.1.94

9/4/3/1 /3/48	M Cluver to Namibia	Fossils from Arrisdrift	17.1.94	Perm. export		
9/4/3/1 /3/49	S A Museum to B Cox	Fossils from Beaufort West	2.2.94	2.2.95		
9/4/3/1 /3/50	B Rubidge to B Cox	Fossils from Karoo	3.2.94	1.3.95		30.1.95
9/4/3/1 /3/51	D B Norman ex SA Museum	Fossil from Ladybrand	25.2.94	1.3.96		
9/4/3/1 /3/52	S Evans ex SA Museum	Fossil from Beaufort West	1.3.94	1.3.95		
9/4/3/1 /3/53	M Sander ex SA Museum	Fossil from Burgersdorp	20.5.94	20.5.95		
9/4/3/1 /3/54	J A Long ex SA Museum	Fossils from Pondoland	20.5.94	20.5.95		
9/4/3/1 /3/55	B Cox ex S A Museum	<i>Emydops</i> , <i>Pristerodon</i>	9.9.94	1.9.95		
9/4/3/1 /3/56	W de Klerk to C Ross	Dinosaur fossils	16.9.94	1.8.95		13.6.95
9/4/3/1 /3/57	H Klinger to JA Crampton	Birostrina fossils	12.12.94	1.12.95		
9/4/3/1 /3/58	BPI to British Museum	Kannemeyeri- riid	9.1.95	1.1.96		Not exported
9/4/3/1 /3/59	W Maier from BPI	<i>Trinaxodon</i> , <i>Diademodon</i> <i>Tritylodon</i>	9.1.95	1.2.97 1.2.00		
9/4/3/1 /3/60	M Pickford from Wits	Microfauna ex Namaqua- land	18.1.95	1.2.98		

9/4/3/1 /3/61	Robert Reisz ex BPI	5 Karoo fossils	6.4.95 re-issued 27.6.95	30.11.96 31.12.99		Two re- turned March 1997
9/4/3/1 /3/62	H C Klinger to RP Jeffries	Fossil shells from Bokkeveld	30.4.95	1.10.95		
9/4/3/1 /3/63	S Pfeiffer ex various museums	Samples of human bone	8.5.95	15.5.96		
9/4/3/1 /3/64	PB Beaumont to HBS Cooke	<i>Elephas recki</i> tooth plates	14.6.95	1.7.96		
9/4/3/1 /3/65	W J de Klerk to C Ross & C Forster	Bird and reptile fossils ex Kirkwood Formation	6.7.95	1.7.97		
9/4/3/1 /3/66	A Chinsamy- Turan to C Ross	Fossils ex Kirkwood Formation	20.7.95 8.11.96	31.7.96 1.7.97		
9/4/3/1 /3/67	K Bandel ex SAM	Fossil molluscs from Mzamba estuary	3.8.95	1.8.97		
9/4/3/1/ 3/68	C Vermeij ex SAM	Miocene shells from West Coast sites	8.1.96	1.1.97		
9/4/3/1/ 3/69	M Pickford to Paris	Microfauna and fish fossils from Northern Cape sites	8.1.96	1.1.97		

9/4/3/1/ 3/70	B Rubidge to J Clack	<i>Prolacerta</i> skull	15.2.96	1.1.98	6.11.98	1998
9/4/3/1/ 3/71	J Welman to W Maier	<i>Micropholis</i> skulls	30.10.96	1.12.97		
9/4/3/1/ 3/72	B Rubidge to W Maier	Four <i>Micropholis</i> skulls and 1 <i>Anomodon</i> skull	2.10.96	1.2.00	6.11.98	
9/4/3/1/ 3/73	B Rubidge to W Maier	Two <i>Lystrosaurus</i> skulls	2.10.96	Perm. export		
9/4/3/1/ 3/74	J F Durand to W Maier	Three Karoo fossils	8.10.96	1.12.97		
9/4/3/1/ 3/75	B Rubidge to W Maier	Two Therapsids	8.10.96	Perm. export		
9/4/3/1/ 3/76	D Ohland to M Pickford	<i>Dorcatherium</i> sp. and <i>Diamantohyus</i> sp.	18.10.96	1.11.97		
9/4/3/1/ 3/77	D Ohland to B Senut	Fossils ex Langebaanw eg	18.10.96	1.11.97		
9/4/3/1/ 3/78	B Rubidge to M Shiskin	Four fossil amphibians	28.10.96	31.12.99	6.11.98	
9/4/3/1/ 3/79	P Haarhoff to M Pickford	Fossil teeth from Hondeklip & Ryskop including 1 hominoid	7.11.96	1.12.97		

9/4/3/1/ 3/80	J F Thackeray to M Pickford	Breccia samples from Krugersdorp Dist.	14.11.96	31.12.98		
9/4/3/1/ 3/81	McGregor Museum to I D Pinto	1 specimens of <i>Notocaris tapscotii</i>	17.12.96	1.12.97		
9/4/3/1/ 3/82	S Techakaisri	Fossil ammonites from Madagascar	23.1.97	Perm. export		
9/4/3/1/ 3/83	B Rubidge to R Reisz	16 Karoo fossils	27.3.97	Perm. export		
9/4/3/1/ 3/84	B Rubidge to R Reisz	RC145 ex Welwood collection	27.3.97	1.4.98		
9/4/3/1/ 3/85	B Rubidge to K Reed	Felid fossils from Makapans- gat Limeworks	5.5.97	31.12.97	6.11.98	July 1998
9/4/3/1/ 3/86	F Senegas to M Pickford	Microfauna ex Drimolen	4.7.97	15.7.00		
9/4/3/1/ 3/87	W J de Klerk to Stony Brook, NY	Theropod dinosaur fragments ex Kirkwood	24.7.97	31.10.97		
9/4/3/1/ 3/88	H Klinger to P D Ward	Cretaceous Nautiloids	17.10.97	1.11.00		
9/4/3/1/ 3/89	R Smith to L Alves	3 thin sections of fossil wood	18.11.97	1.11.98		

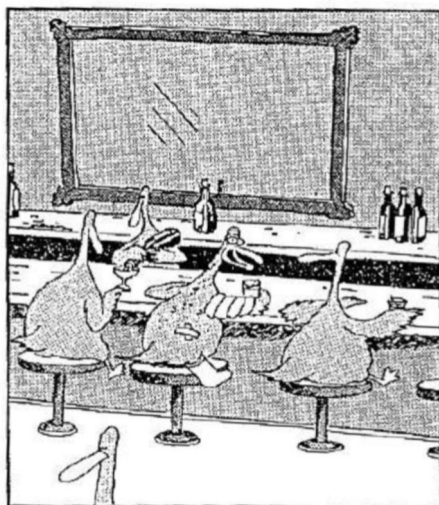


9/4/3/1/ 3/90	D Ohland to B Senut	Macrosceli- dae teeth from Langebaan- weg	28.11.97	1.12.98		
9/4/3/1/ 3/91	B Rubidge to Lisbon Expo	Three <i>Lystrosaurus</i> specimens	21.5.98	1.12.98		
9/4/3/1/ 3/92	B Rubidge to M Richter	<i>Atherstonia</i> sp.	15.7.98	1.7.00		
9/2/257 /2	B Blackwell	Equid and bovid teeth from Buffalo Cave	13.7.98	Perm. export		
9/4/3/1/ 3/93	R Smith to F Senegas	Langebaan- weg rodentia	4.8.98	1.10.99		
9/4/3/1/ 3/94	R Smith to DB Norman	2 specimens of <i>Heterodont</i> <i>o-saurus</i>	6.8.98	1.10.99		
9/4/3/1/ 3/95	H Fourie to F Senegas	Breccia with microfauna from Bolts, Drimolen, Fulton	6.8.98	1.8.01		
9/2/233 /4	JF Thackeray to SE Lauritzen	Kromdraai calcite	23.7.98	1.9.98		
9/2/257 /2	K Kuykendall to K Reed	Breccia samples from Makapans- gat	4.8.98	1.8.99		

9/4/3/1/ 3/80	J F Thackeray to M Pickford	Breccia samples from Krugersdorp Dist.	14.11.96	31.12.98		
9/4/3/1/ 3/81	McGregor Museum to I D Pinto	1 specimens of <i>Notocaris tapscotii</i>	17.12.96	1.12.97		
9/4/3/1/ 3/82	S Techakaisri	Fossil ammonites from Madagascar	23.1.97	Perm. export		
9/4/3/1/ 3/83	B Rubidge to R Reisz	16 Karoo fossils	27.3.97	Perm. export		
9/4/3/1/ 3/84	B Rubidge to R Reisz	RC145 ex Welwood collection	27.3.97	1.4.98		
9/4/3/1/ 3/85	B Rubidge to K Reed	Felid fossils from Makapans- gat Limeworks	5.5.97	31.12.97	6.11.98	July 1998
9/4/3/1/ 3/86	F Senegas to M Pickford	Microfauna ex Drimolen	4.7.97	15.7.00		
9/4/3/1/ 3/87	W J de Klerk to Stony Brook, NY	Theropod dinosaur fragments ex Kirkwood	24.7.97	31.10.97		
9/4/3/1/ 3/88	H Klinger to P D Ward	Cretaceous Nautiloids	17.10.97	1.11.00		
9/4/3/1/ 3/89	R Smith to L Alves	3 thin sections of fossil wood	18.11.97	1.11.98		

9/4/3/1/ 3/90	D Ohland to B Senut	Macrosceli- dae teeth from Langebaan- weg	28.11.97	1.12.98		
9/4/3/1/ 3/91	B Rubidge to Lisbon Expo	Three <i>Lystrosaurus</i> specimens	21.5.98	1.12.98		
9/4/3/1/ 3/92	B Rubidge to M Richter	<i>Atherstonia</i> sp.	15.7.98	1.7.00		
9/2/257 /2	B Blackwell	Equid and bovid teeth from Buffalo Cave	13.7.98	Perm. export		
9/4/3/1/ 3/93	R Smith to F Senegas	Langebaan- weg rodentia	4.8.98	1.10.99		
9/4/3/1/ 3/94	R Smith to DB Norman	2 specimens of <i>Heterodont</i> <i>o-saurus</i>	6.8.98	1.10.99		
9/4/3/1/ 3/95	H Fourie to F Senegas	Breccia with microfauna from Bolts, Drimolen, Fulton	6.8.98	1.8.01		
9/2/233 /4	JF Thackeray to SE Lauritzen	Kromdraai calcite	23.7.98	1.9.98		
9/2/257 /2	K Kuykendall to K Reed	Breccia samples from Makapans- gat	4.8.98	1.8.99		

9/4/3/1/ 3/96	J Neveling to JA Hopson	Cynodont fossil from Rouxville Langebaan- weg	15.9.98	1.1.99	14.12/ 98	
9/4/3/1/ 3/97	B Rubidge to A Warren	Chigutisaurid fragments	7.10.98	1.5.99		



"Well, hell no, I can't tell Harriet! ... First thing  
she's gonna ask me is what was I doin'  
checkin' out a decoy!"

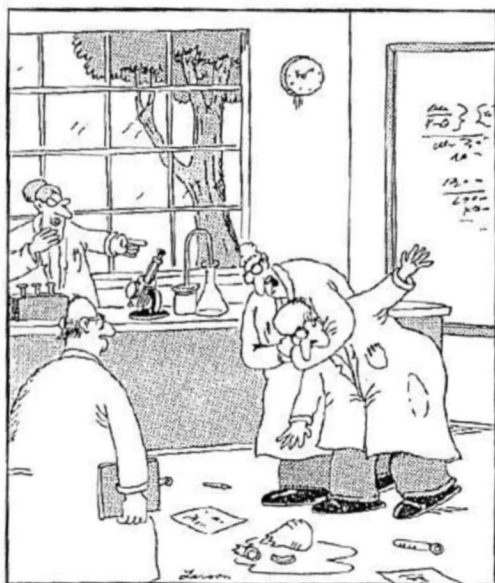
Authors of an article in the latest *New Phytologist* will be  
appreciated in this rugby mad country - Jumponen and Trappe.  
I kidd you not.  
Chris Gow

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"But on the other hand, Feldman, having the biggest  
 brain among us means that it is mere child's play to  
 subdue you with an ordinary headlock!"



"Vernon! That light ...  
The Jeffersons' dog is back!"



"It's Bob, all right ... but look at those  
vacuous eyes, that stupid grin on his face—  
he's been domesticated, I tell you."

## **Reminder:**

*Deadline for contributions for the next issue of **PAL NEWS***

*is **18 June***