

APPENDIX 1

CURRICULUM VITAE

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JEAN LOIS BEATER

Nationality: South African

Qualifications & Membership with Professional societies:

International Association of Impact Assessors (IAIA)(SA Branch)

Member: Heritage Impact Assessment Adjudication Committee for the Gauteng Provincial Heritage Resources Authority

Affiliate member of the Association of Southern African Professional Archaeologists – member No. 349

Accredited heritage practitioner with Amafa aKwazulu Natali

EMPLOYMENT RECORD

- March 2010 – to present:** **Independent Environmental Consultant (including heritage assessments)**
Undertake EIAs for various clients. Project manage EIAs and Basic Assessments (BAs) for client companies
Undertake heritage impact assessments (HIAs) for clients;
- 2005 – February 2010** : **Senior Environmental Specialist with PBA International (South Africa) Pty Ltd**
Project management: numerous EIA studies for proposed developments in South Africa (see below some of the projects). This included:

Liaising with clients and government officials; managing the appointment and work of specialists; undertake public participation process including presenting findings to public, stakeholders and landowners; budgeting for proposed projects and management of budgets for projects; report writing.
- 2004 – 2005** : **Assistant Director: Gauteng Department of Agriculture, Conservation & Environment Cradle of Humankind World Heritage Site**

Implement site management plans according to UNESCO standards; ensure management of resources includes an integrated environmental and conservation approach; monitor fossil sites and cultural resources; negotiate site management plans with landowners; engage with landowners and other key stakeholders

2003 – 2004	:	Heritage Consultant: Heritage Management Consultancy, Johannesburg
		Heritage impact assessments; conservation management plans; archival record management
1991 – 2002:		Manager: Burial Sites Unit South African Heritage Resources Agency
		Implement programs to upgrade & maintain burial grounds and memorials across South Africa; maintain graves of soldiers who who died in conflict in SA prior to 1914; negotiate with & manage contractors; manage administration of regional office including the hiring and training of staff; assess heritage impact assessments for developments.

EXPERTISE

Environmental Impact Assessments including:

- EIA for Eskom Pelly-Babelegi 132kV Distribution power line project near Hammanskraal
- EIA for Eskom Big Tree 132kV Distribution power line project between Tshwane and Moloto
- EIA for Eskom Amandla-Wolwekraal 132kV distribution power line project near Marble Hall
- EIA for Eskom Burgersfort 132kV Distribution power line project, Burgersfort
- EIA for Eskom Zeus-Mercury-Persues 765kV Transmission power line project between Standerton and Vierfontein and Standerton and Dealesville
- EIA for Eskom Delta-Epsilon 6x 765kV transmission power line project between Lephalale and Potchefstroom (360km in length)
- EIA for Eskom Distribution Substation (Leloko) near Hartebeespoort Dam
- EIA for Eskom Distribution Bighorn-Makolokwe-Mamogale 88kV power line project and associated substations between Rustenburg and Brits
- EIA for Eskom Distribution Bighorn-Karee 88kV line project between Rustenburg and Brits.
- EIA for Eskom Distribution Simthabi substation & 132kV power line project near Thabazimbi
- EIA for proposed Sol B Main Transmission Substation & 3x 400kV turn-in power lines, Secunda, Mpumalanga

Heritage Management

- Desk top heritage survey for Environmental Management Framework for Dube TradePort development, Durban, Kwazulu-Natal
- Heritage impact assessment for Peaking Power Project, Coega Industrial Development Zone Eastern Cape
- Heritage Impact Assessment of Wemmer Pan, Johannesburg for Wemmer Pan Precinct Plan,
- Heritage assessment for the North Shore Housing Development, Wemmer Pan, Johannesburg
- Desk top heritage survey for Environmental Management Framework for Dube TradePort development, Durban, Kwazulu-Natal

- Cultural heritage survey of 8 farms in Northern Cape and Eastern Cape for proposed solar farm development for Scatec Solar
- Heritage impact assessment for Hlabisa-Nongoma 88kV Distribution power line project
- Heritage impact assessment for Les Cheval residential development, Tinley Manor, KZN
- Heritage impact assessment for the Ncwabeni Off-Channel Storage Dam project, Mzimkhulu River Valley, Port Shepstone.

Implementation of site management plans:

Manage negotiation of fossil site agreements and site management plans with landowners, in the Cradle of Humankind World Heritage Site and implement and monitor management plans

Benchmarking – Best Practice Reporting:

- Benchmarking Report: Environmental Best Practice: Dube Aerotropolis: King Shaka Airport/Dube Tradeport, Durban (for Kerry Seppings Environmental Management Specialists)

EDUCATION & TRAINING

1983	:	University of KwaZulu-Natal, SA:	BA
2002	:	University of the Witwatersrand, SA:	MA (Heritage Studies)
2006	:	University of the North West	EIA: NEMA Regulations_
2012 – 2013: Masters in Environmental Management, University of the Free State, Bloemfontein			

CURRICULUM VITAE

Name: **Frans Edward Prins**

Name of Company: Active Heritage CC. (own heritage consultancy)

Position: Owner, heritage specialist (EIA's), social scientist

EDUCATIONAL QUALIFICATIONS

- BA Degree in 1985 (University of Stellenbosch)
- BA (Hons) in Archaeology 1986 (University of Stellenbosch)
Project topic: Charcoal analysis of the Moerasrivier L S A site.
- M.Á in Archaeology 1993 (University of Stellenbosch)
Project topic: Aspects of Iron Age Ecology in Transkei
- Cultural Tourist Guide (KZN) Thetha accreditation 2008 (Drum College)
- Accredited Heritage Impact Assessor (Stone Age, Iron Age, Rock Art). ASAPA accreditation 2008.
- PhD candidate (Anthropology) – Rhodes University, Grahamstown

EMPLOYMENT HISTORY

- Junior Research Associate: Botany Department University of Transkei 1987-1990 (end of contract).
- Junior Lecturer: Department of Archaeology University of Stellenbosch July 1990 December 1991 (end of contract).
- Lecturer: Department of Archaeology University of Stellenbosch January 1991-June 1991 (end of contract).
- Technical Officer: Department of Archaeology University of Stellenbosch June 1991-December 1991 (end of contract).
- Senior Curator: head of Anthropology Department Natal Museum Pietermaritzburg 1992.
- Senior Curator & head of Department of Historical Anthropology (merger between Anthropology and Cultural History), Natal Museum, Pietermaritzburg 1997.
- Manager and Research Coordinator, !Khwa ttu San Culture and Rock Art Museum. Darling. 2003. (a project in collaboration with the Working Group for Indigenous Peoples of Southern Africa, the South African San Institute, and the Ubuntu Foundation).

- Cultural Resource Specialist, Maloti Drakensberg Transfrontier Project, Howick, January 2004 – April 2008. (A bilateral project funded by the Global Environmental Facility through the World Bank).
- Heritage Specialist. Strategic Environmental Focus (Environmental Consultancy). April 2008 – July 2009
- Interpretive Specialist and Associate. Haley Sharpe Southern Africa. October 2008 – present.
- Part-time lecturer, Department of Tourism and Heritage studies University of KwaZulu-Natal, Durban (2011)
- Owner of heritage consultancy (Active Heritage cc) 2009 - present

MEMBERSHIP: SOCIETIES

- South African Archaeological Society
- Association of Southern African Archaeologists
- South African Anthropological Association
- South African Museum Association
- Southern African Rock Art Research Association

EXPERIENCE

- Heritage Impact Assessment of Buys Cave, Winterton. San Aquam, August 2009.
- Heritage Impact Assessment of Watermead Farm, Underberg. KF Environmental Management, September 2009.
- Heritage Impact Assessment, Nyamezi Yard, Richards Bay. Terratest. January 2010
- Heritage Impact Assessment, Rietvlei Farm Lidgetton. Kerry Seppings Environmental Consultancy. February 2010
- Heritage Impact Assessment, Highgate Farm, Dargle. (Green Door Environment). March 2010
- Heritage Impact Assessment. Mondi Mountain Farm, Hilton. Mondi. March 2010
- Heritage Impact Assessment. Road improvement Citeux, Enyathini, Boskay at Underberg. SH Environmental. April 2010
- Heritage Impact Assessment. Road construction Maluleku & Goldstone roads, Ixopo. SH Environmental. May 2010
- Heritage Impact Assessment. Rietspruit Falls and Bush Lodge, Hilton. Enviroplan. June 2010
- Heritage Impact Assessment. Ottos Bluff Bush Lodge. Peter Yewell. August 2010.
- Heritage Impact Assessment. Portion 5, Ottos Bluff Farm Pmb. Enviroplan. August 2010.

- Heritage Impact Assessment. P16 road upgrade, Tugela. VNA Consulting. September 2010/
- Heritage Impact Assessment. Woodburn Farm, Merrivale. Enviroplan. October 2010
- Heritage Impact Assessment. Karkloof Broiler Farm. Environmental Services. November 2010
- Heritage Impact Assessment. P17 Road Alignment. Sivest. November 2010
- Heritage Impact Assessment. Hlabisa Power line. Kerry Seppings. February 2011.
- Heritage Impact Assessment. Spionkop Lodge, Bergville KZN. Greendoor. March 2011.
- Heritage Impact Assessment. Nkandla area. Green Door Environmental. May 2011
- Heritage Impact Assessment. Franklin Powerline and substations. Sivest June 2011
- Heritage Impact Assessment. Shelela Vehicle bridge, Inanda. EnviroPro. July 2011.
- Heritage Impact Assessment. Nhlabamkhozi Road, Ndedwe. Thlahlo Environmental. August 2011.
- Heritage Impact Assessment. P 16 road upgrade. VNA Consulting. October 2011.
- Heritage Impact Assessment. Mount Elias powerlines and substation. Kerry Seppings. October 2012.
- Heritage Impact Assessment. Mount Victoria Farm, Mooiriver. M. B. Kitshoff Consulting. November 2011.
- Heritage Impact Assessment. Hlabisa and Nongoma powerlines. Jean Beater Consulting. November 2011.
- Heritage Impact Assessment. R61 road upgrade extension, Umtata - Queenstown. SRK. November 2011.
- Heritage Impact Assessment. Bucklay Farm, Fawn Leas. Green Door. December 2011.
- Archaeological Impact Assessment. Le Cheval, Kwa Dukuza. Jean Beater Consulting. December 2011.
- Heritage Impact Assessment. P735 Road, Nongoma and Hlabisa. Terratest. January 2012.
- Heritage Impact Assessment. Lower Malukazi Sewer Reticulation. Kerry Seppings. February 2012
- Heritage Impact Assessment. D 1639 & D1641 road upgrades, Maphumulo. Kerry Seppings. March 2012
- Heritage Impact Assessment. St James, Leksand, Emondlo powerlines and substations, Nquto. Kerry Sepings Environmental. April 2012
- Heritage Impact Assessment. Tembe Elephant Park, Ezemvelo KZN Wildlife. Two Star Camp. Thlahlo Environmental. May 2012.

M.N. OVECHKINA, PhD

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South Africa
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Nationality: South Africa (permanent resident)

Employment history:

vii.1999–vii.2005	Junior Researcher, Paleontological Institute, Russian Academy of Sciences.
vii.2005–ii.2006	Senior Researcher, Paleontological Institute, Russian Academy of Sciences.
iii.2006–now	Postdoctoral Research Fellow, Marine Geoscience Unit, UKZN, Durban.

Education:

1994–1999	Department of Palaeontology, Geological Faculty, Moscow State University.
1999–2002	Postgraduate course at the Paleontological Institute, Russian Academy of Sciences.

Degrees obtained:

BSc (Moscow State University, 1997):

Tintinnids (Infusoria) of the White Sea.

MSc (Moscow State University, 1999):

Calcareous nannoplankton of the upper part of the Middle and the Upper Eocene of the Bakhchisarai Region of south-western Crimea.

PhD (Paleontological Institute, Russian Academy of Sciences, 2005):

Campanian–Maastrichtian calcareous nannoplankton of the Russian Platform.

Scientific interests:

- Taxonomy and distribution of calcareous nannoplankton in Upper Cretaceous and Cainozoic deposits.
- Reconstruction of palaeoenvironments on the basis of quantitative analysis of calcareous nannoplankton.
- Systematic, taxonomy, palaeoecology of Cainozoic Foraminifera.
- Upper Cretaceous and Cainozoic biostratigraphy.

Professional memberships:

Palaeontological Society of Southern Africa
Cushman Foundation for Foraminiferal Research
International Nannoplankton Association
All-Russia Palaeontological Society
Moscow Society of Nature Explorers

Participation in projects:

- 1997–1999 "Climatic importance of sapropelites in the World changing from non-ice to ice state" (funded by INTAS).
- 2003–2005 "The Upper Cretaceous (Senomanian–Santonian) of the Western European Platform: stratigraphy, palaeogeography and biota" (funded by Russian Foundation for Basic Research).
- 2005–2007 "Structure and evolution of the Late Cretaceous water masses of the North-eastern Peri-Tethys on the base of microorganisms" (funded by Russian Foundation for Basic Research).
- 2006–2008 "The Upper Cretaceous (Campanian–Maastrichtian) of the Western European Platform: stratigraphy, palaeogeography and biota" (funded by Russian Foundation for Basic Research).
- 2009–2011 "The Functioning of ecosystems in the South West Indian Ocean and the coupled oceanographic habitat of the coelacanth (*Latimeria chalumnae*)" (funded by National Research Foundation).
- 2011–2012 "Biostratigraphy and palaeoenvironments of the Cretaceous and Cenozoic of South Africa." (funded by National Research Foundation).

Contract work:

- 2006–2011 Identification of calcareous nannoplankton for the Council for Geoscience and De Beers.
- 2011 Palaeontological Impact Assessment for eThembeni Cultural Heritage.

Field experience:

- 1997–2000 Upper Cretaceous/Cainozoic, Russian Platform and Ukraine
- 2001 Lower and Upper Cretaceous of Norfolk and Dorset, UK
Upper Cretaceous, Belgorod and Voronezh regions, Russian Platform
- 2008 Jurassic–Cretaceous–Eocene (Kirkwood, Sunday River formations) of Eastern Cape, South Africa
- 2008–2011 Upper Cretaceous: Mzamba Formation of Eastern Cape and KwaZulu-Natal; St Lucia Formation of KwaZulu-Natal, South Africa

Publications:

1. Alekseev, A.S., Kopaevich, L.F., **Ovechkina, M.N.** & Olferiev, A.G. 1999. The Maastrichtian and Lower Paleocene of Northern Saratov Region (Russian Platform, Volga River): Foraminifera and calcareous nannoplankton. *Bull. l'Inst. Roy. Sci. Belgique, Sciences de la terre*, **69-SUPP. A**: 15–45.

2. **Ovechkina, M.N.** 2001. Calcareous nannoplankton and palaeotemperature changes in the Middle and Upper Eocene of the Crimea Region. *Bull. Moscow Soc. Nature Explorers, Geol. Ser.*, **76** (5): 82–83.
3. **Ovechkina, M.N.** & Alekseev, A.S. 2002. Quantitative analysis of Early Campanian calcareous nannofossil assemblages from the southern regions of the Russian Platform. In: Wagreich, M., ed., Aspects of Cretaceous Stratigraphy and Palaeobiostratigraphy. *Österr. Akad. Wiss., Schriften. Erdwiss. Komm.*, **15**: 205–221.
4. **Ovechkina, M.N.**, Alekseev, A.S., Olferiev, A.G., Osipova, L.M. & Kazantsova L.I. 2002. Cretaceous calcareous nannoplankton of the Moscow Region and its stratigraphical importance. *Bull. Moscow Soc. Nature Explorers, Geol. Ser.*, **78** (5): 25–37.
5. **Ovechkina, M.N.** 2004. Upper Cretaceous stratigraphy of the Saratov Region by calcareous nannoplankton. *Bull. Moscow Soc. Nature Explorers, Geol. Ser.* **79** (5): 69–81.
6. **Ovechkina, M.N.** & Alekseev, A.S. 2004. The changes of phyto- and zooplankton assemblages in the Maastrichtian Basin of the Saratov Region. In: *The changes of ecosystem and evolution of biosphere*. V. 6. Moscow: Paleontological Inst., pp. 57–73.
7. **Ovechkina, M.N.** & Alekseev, A.S. 2005. Quantitative changes of calcareous nannoflora in the Saratov Region (Russian Platform) during the late Maastrichtian warming event. *J. Iberian Geol.* **31** (1): 149–165.
8. **Ovechkina, M.N.** 2007. Calcareous nannoplankton of the Upper Cretaceous (Campanian and Maastrichtian) of the southern and eastern Russian Platform. *Trans. Paleontological Inst., Russian Acad. Sci.* **288**: 1–353.
9. Bosman, C., **Ovechkina, M.N.**, Uken, R. 2007. The Aliwal Shoal revised: New age constraints from nannofossil assemblages. *South African Journal of Geology* **110**: 647–653.
10. Alekseev A.S., Kopaeovich, L.F., Nikishin A.M., Kuzmicheva T.A., **Ovechkina, M.N.** 2007. Cenomanian–Turonian boundary interval in Southwestern Crimea. 1. Stratigraphy. *Bull. Moscow Soc. Nature Explorers, Geol. Ser.* **82** (3): 3–29.
11. Olferiev, A.G., Beniamovskii, V.N., Vishnevskaya, V.S., Ivanov, A.V., Kopaeovich, L.F., **Ovechkina, M.N.**, Pervushov, E.M., Seltser, V.B., Tesakova, E.M., Kharitonov, V.M., Shcherbinina, E.A. 2008. Upper Cretaceous deposits from Saratov Region. Article 2. Problems of the chronostratigraphical correlation and geological history of Region. *Stratigraphy and Geological Correlation* **16** (3): 267–294.
12. Green A., **Ovechkina M.N.**, Uken R. 2008. Nannofossil age constraints for the northern KwaZulu-Natal shelf edge wedge: Implications for continental margin dynamics, South Africa, SW Indian Ocean. *Continental Shelf Research* **28** (17): 2442–2449.
13. Olferiev A.G., Beniamovski V.N., Ivanov A.V., **Ovechkina M.N.**, Seltser V.B., Kharitonov V.M. 2009. Upper Cretaceous of north Saratov Region. 1. Bolshevik Quarry section in vicinity of Volsk. *Bull. Moscow Soc. Nature Explorers, Geol. Ser.* **84** (2): 5–22.
14. Olferiev A.G., Beniamovski V.N., Ivanov A.V., **Ovechkina M.N.**, Seltser V.B., Kharitonov V.M. 2009. Upper Cretaceous of north Saratov Region. 2. Biostratigraphic subdivision of Bolshevik Quarry section in vicinity of Volsk. *Bull. Moscow Soc. Nature Explorers, Geol. Ser.* **84** (4): 29–46.
15. **Ovechkina M. N.**, Watkeys M.K., Kretzinger W. 2009. Nannoplankton in the manganese deposits of the Mozambique Ridge and Mozambique Basin, SW Indian Ocean. *Palaeontologia africana* **44**: 126–128.
16. **Ovechkina M. N.**, Watkeys M.K., Mostovski M.B. 2009. Calcareous nannofossils from the stratotype section of the Mzamba Formation, Eastern Cape, South Africa. *Palaeontologia africana* **44**: 129–133.
17. **Ovechkina, M.N.**, Bylinskaya, M., Uken, R. 2010. Planktonic foraminiferal assemblage in

surface sediments from the Thukela Shelf, South Africa. *African Invertebrates* **51** (2): 231–254.

Technical Reports:

1. **Ovechkina, M.N.** 2006. *Results of identification of the calcareous nannoplankton from Northern Mozambique*. Submitted to the Council for Geoscience, Pietermaritzburg.
2. **Ovechkina, M.N.** 2007. *Results of identification of the calcareous nannoplankton, Eastern Cape samples*. Submitted to the Council for Geoscience, Pietermaritzburg.
3. **Ovechkina M.N.** 2008. *Results of identification of the calcareous nannoplankton from the Angolan sample provided by De Beers Group Exploration – Technical Services*. Submitted to De Beers Group Exploration–Technical Services, Cape Town.
4. **Ovechkina, M.N.** 2009. *Results of identification of the calcareous nannoplankton from cores in Durban Harbour*. Submitted to the Council for Geoscience, Pietermaritzburg.
5. **Ovechkina M.N.** 2010. *Results of identification of the calcareous nannoplankton from the Botswana samples provided by De Beers*. Submitted to De Beers Group Exploration–Technical Services, Cape Town.
6. **Ovechkina M.N.** 2011. *Results of identification of the calcareous nannoplankton from the Botswana samples provided by De Beers Group Exploration – Technical Services*. Submitted to De Beers Group Exploration–Technical Services, Cape Town.
7. **Ovechkina M.N.** 2011. *Results of identification of the calcareous nannoplankton from the Indian samples provided by De Beers Group Exploration – Technical Services*. Submitted to De Beers Group Exploration–Technical Services, Cape Town.
8. **Ovechkina M.N.** 2011. *Assessment of palaeontological significance of the proposed Transnet Pipeline River Crossing: uMvoti River, KwaZulu-Natal*. Submitted to eThekweni Cultural Heritage.
9. **Ovechkina M.N.** 2011. *Assessment of palaeontological significance of the proposed Durban Airport Site Expansion between the uMlazi and Isipingo rivers (Contract No M-2122828-333)*. Submitted to eThekweni Cultural Heritage.
10. **Ovechkina M.N.** 2011. *Palaeontological Impact Assessment desktop study for Zulti South Heritage Impact Assessment*. eThekweni Cultural Heritage.
11. **Ovechkina M.N.** & Mostovski, M. 2012. *Results of identification of the calcareous nannoplankton in Zulti South samples provided by Davies Lynn and Partners (Pty) LTD*. Submitted to Davies Lynn and Partners (Pty) LTD.
12. **Ovechkina M.N.** & Mostovski, M. 2012. *Results of identification of the calcareous nannoplankton in Zulti South samples provided by Davies Lynn and Partners (Pty) LTD. Report 2*. Submitted to Davies Lynn and Partners (Pty) LTD.

Manuals:

- Ovechkina, M.N.** 2007. *Micropalaeontology: Practical Manual*. Durban: University of KwaZulu-Natal, 21 pp.
- Ovechkina, M.** & Mostovski, M. *GEOL214. Invertebrates palaeontology. Practical manual*. Durban-Westville: Univ. of KwaZulu-Natal, 2011. 17 pp. + 26 figs.