



AFRAS NEWS

African Arachnological Society

2015 - No. 25: 1-17

AFRAS NEWSLETTER UNDER “NEW MANAGEMENT”

The AFRICAN ARACHNOLOGICAL SOCIETY (AFRAS) is a scientific society devoted to the study of spiders, scorpions and other arachnids in Africa. It was initiated in 1986 in Pretoria and was first called "The Research Group for the Study of African Arachnida". In 1996 the name was changed to the African Arachnological Society.

Membership of AFRAS is free of charge and is mainly used to report on and facilitate arachnid research undertaken in Africa. This is done through an annual newsletter, website and a colloquium held every three years.

No AFRAS Newsletters have been published since 2012. Ansie Dippenaar-Schoeman, the editor of the first AFRAS newsletters, has offered to help out again as editor of the newsletter after retiring in 2013. With this newsletter, we would like to report on research activities over the last three years (2013-2015). The publication list on pp. 11-18 gives the best reflection of recent arachnid research. For the next newsletter, please forward news to Ansie or Charles. For more information on AFRAS also see back issues of the newsletter at the website (<http://afras.ufs.ac.za>).



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Editor: Ansie Dippenaar-Schoeman
DippenaarA@arc.agric.za
Co-editor: Charles Haddad
haddadcr@ufs.ac.za
Distribution: Petro Marais
MaraisP@arc.agric.za

WEBSITE
<http://afras.ufs.ac.za>



THE 11th AFRAS COLLOQUIUM

The colloquium was hosted by the University of the Free State and National Museum, Bloemfontein, and was held at the Amanzi Private Game Reserve (APGR) in the Brandfort district, Free State, South Africa. The objectives of the Colloquium are to promote research on the African Arachnida (non-Acari) and to provide a forum for the discussion of this research in oral presentations, posters and workshops, as well as informal discussions.

Some highlights:

- 28 people attended, including visitors from Russia and Belgium;

- 31 papers and 6 posters were presented;
- the second Red Data listing workshop was held, and was organised by Theresa Sethusa and Domitilla Raimundo of the South African National Biodiversity Institute (SANBI);
- the launch of a new book on the Spiders of the Grassland Biome;
- SANSA workshop discussions: the way forward for SANSA; barcoding and the collecting of DNA samples; and the way forward in compiling a common name list for South African spiders;



11th Colloquium



African Arachnological Society

The 11th Colloquium of the African Arachnological Society was held in the Free State in January 2014. A total of 31 papers and 6 posters were presented.

AFRAS COMMITTEE 2015-17

Chairman: Charles Haddad

Secretary: Robin Lyle

Newsletter: Ansie Dippenaar-Schoeman and Charles Haddad

AFRAS COLLOQUIUM AWARDS

Several awards were also presented:

Astri Leroy of the Spider Club received the Lawrence award for her support and dedication to African arachnids over the past 30 years.

Ansie Dippenaar-Schoeman received for the second time the award for the best contribution to African Arachnology over the last three years (2011-2013).

Arnaud Henrard won the award for best student poster.

Vivian Butler received the award for best student paper presentation.

Nicolette Josling won the prize for the best poster.

Stefan Foord and **Ansie Dippenaar-Schoeman** received the award for the best paper presentation.

The prize for the best photograph was won by **Vida van der Walt** for a photo of a jumping spider (see picture on the right).

Rudy Jocqué and his wife **Elizabeth** won the prize for the catch of the day, with a Theridiosomatidae spider that was recorded from APGR for the first time.

Contact: Charles Haddad
(haddadcr@ufs.ac.za)



©Vida van der Walt

New *Rhene* sp.

Vida van der Walt

Please visit the new South African Salticidae website developed by Vida van der Walt at www.jumpingspiders.co.za. The aim of this website is to showcase the diversity and beauty of South African jumping spiders by means of a photographic gallery of the different species. Vida would love to have a photo of all the species, preferably of both sexes. So please, if anybody finds an interesting live jumping spider contact Vida at vidavdw@live.com



NEXT COLLOQUIUM—CAPE TOWN 2017

The 12th Colloquium of the African Arachnology Society will be hosted by Esther van der Westhuizen and Norman Larsen, and will be held in January 2017 near Cape Town in South Africa. This promises to be an exceptional event, with an amazing array of tourist attractions in the region and the opportunity to sample arachnids in a global biodiversity hotspot, the Cape Floral Kingdom. The first circular will be distributed shortly through various organisations and to the AFRAS membership.

As AFRAS is a non-profit organization, there are unfortunately no travel grants or bursaries to cover attendance costs of delegates. Please make timely arrangements to ensure you are able to make the trip and attend this event!

DID YOU KNOW?

The African Arachnologists are enthusiastic collectors, and are always busy sampling arachnids during colloquia. This has led to several new species being described that were sampled at colloquium and congress venues:

Archaearana globispira Henschel & Jocqué, 1994. Holotype: ♂, Dwarsrivier Farm, Clanwilliam, Western Cape Province [4th COLLOQUIUM, 1993]

Quamtana embuleni Huber, 2003. Holotype: ♂, Embuleni Nature Reserve, Badplaas, Mpumalanga Province [INT. CONGRESS, 2001]

Smeringopus badplaas Huber, 2012. Holotype: ♂, Badplaas, Mpumalanga Province, with 1♂2♀ 4 juvs. [INT. CONGRESS, 2001]

Tomomingi szutzi Wesołowska & Haddad, 2013. Holotype ♂ and paratype ♀, Lajuma Mountain Retreat, Limpopo Province [9th COLLOQUIUM, 2008]

Dendryphantès limpopo Wesołowska & Haddad, 2013. Holotype: ♀ Mookgopong, Rhemardo Holiday Resort, Limpopo Province [10th COLLOQUIUM, 2011]

NEXT INTERNATIONAL ARACHNOLOGICAL CONGRESS

The 2016 joint meeting of the International Society of Arachnology and the American Arachnological Society will be held from July 2 – 9, 2016 in beautiful Golden, Colorado (<http://www.cityofgolden.net/>) – “Where the West Lives”.

Golden is located just west of downtown Denver and is nestled at the foothills of the Rocky Mountains. The meeting host is Paula Cushing, Curator of Invertebrate Zoology at the Denver Museum of Nature & Science. Participants will arrive on Saturday July 2nd and be welcomed at an opening evening social on the campus of the Colorado School of Mines (<http://www.mines.edu/>). Housing and talks will be on campus. There will be a few off-campus options for housing as well. There will be many activities scheduled for accompanying people, so use this meeting to plan your family vacation. Optional field trips will take participants up to the “high country” above tree line or to the Great Plains, where participants may have an opportunity to get up close and personal with a herd of American Bison. A post-Congress excursion will take participants to natural and cultural sites around the state such as Florissant Fossil Beds National Monument, the Great

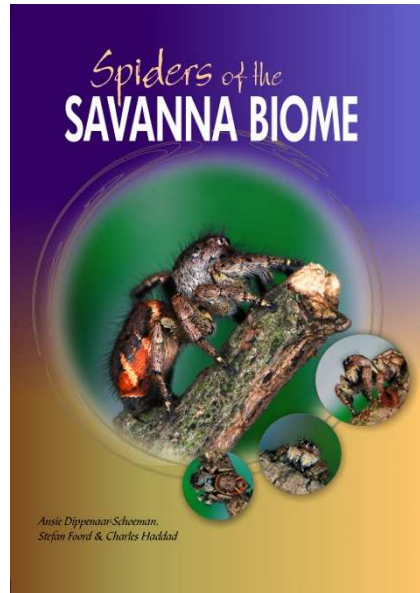


Sand Dunes National Park, and Mesa Verde National Park. The Congress banquet will be held at the Denver Museum of Nature & Science (www.dmns.org) where participants can enjoy the world class exhibits and can visit the arachnology collection (participants can peruse the DMNS arachnology holdings at <http://symbiota1.acis.ufl.edu/scan/portal/>).

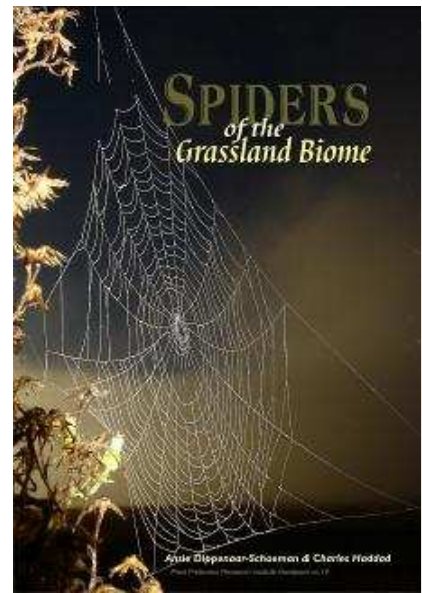
NEW BOOKS AND POSTER ON SPIDERS IN AFRICA



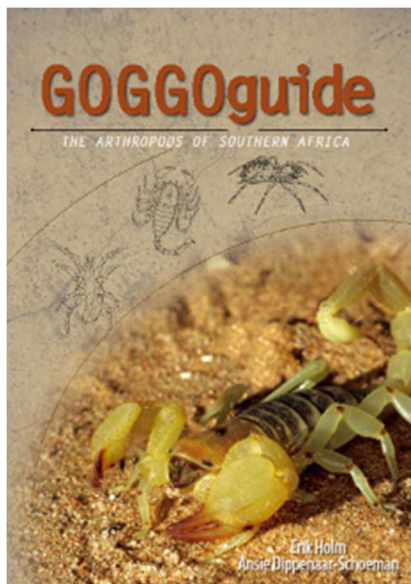
Penney, D. (ed) 2013. Spider Research in the 21st Century. Siri Scientific Press, Manchester. 320 pp. ISBN 978-0-9574530-1-2.



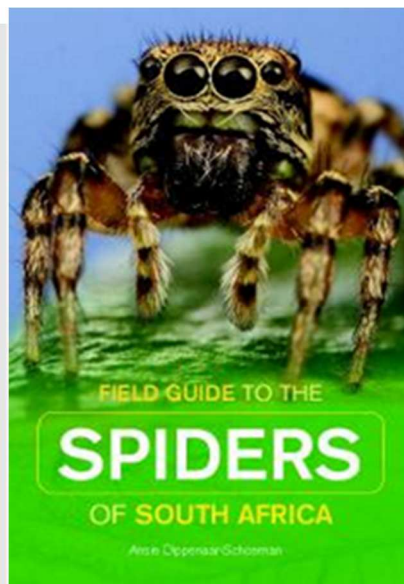
Spiders of the Savanna Biome; ISBN: 978-1-86849-421-7
AUTHORS: Ansie Dippenaar-Schoeman, Stefan Foord and Charles Haddad; University of Venda & ARC, 2013: 134 pp.



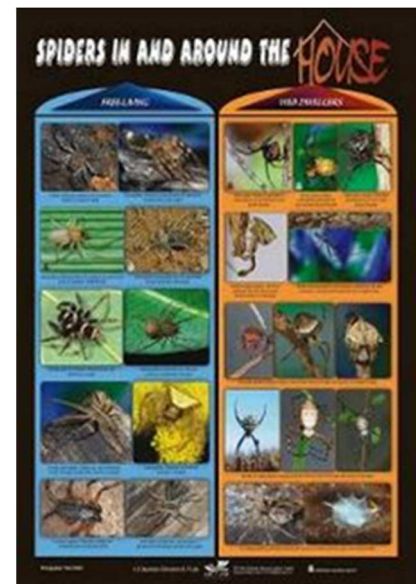
Spiders of the Grassland Biome; ISBN: 13-978-1-86849-429-3
AUTHORS: Ansie Dippenaar-Schoeman and Charles Haddad; Plant Protection Research Institute Handbook No.19, Agricultural Research Council, Pretoria, 2014: 120 pp.



Goggoguide -the arthropods of southern Africa, ISBN: 976 0 7993 4688-6
AUTHORS: Erik Holm and Ansie Dippenaar-Schoeman; Also available in Afrikaans as "Goggagids—die geledpotiges van Suider-Afrika", 2010: 304 pp.



Field guide to the Spiders of South Africa; ISBN: 978 0 7993 6018 9
AUTHOR: Ansie Dippenaar-Schoeman; LAPA publishers, 2014: 432 pp.



A new wall poster on the common spiders found in and around houses in South Africa
AUTHOR: Ansie Dippenaar-Schoeman and Robin Lyle.



NEWS SNIPPETS

CONGRATULATIONS: RECENT GRADUATES



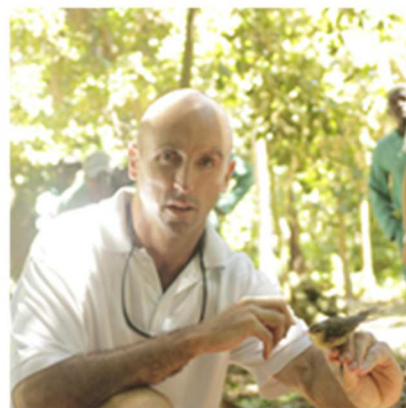
Leon Lotz of the National Museum was awarded his PhD degree in Entomology in December 2014 from the University of the Free State in Bloemfontein. His thesis was titled THE AFROTROPICAL SPECIES OF THE SAC SPIDER GENERA *CHEIRACANTHIUM* AND *CHEIRAMIONA* (ARANEAE: EUTICHURIDAE),



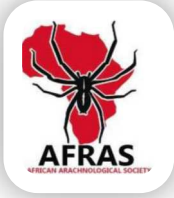
Jan-Andries Neethling obtained his MSc thesis from the University of the Free State in 2015, with a study titled REVISION OF THE SOUTH AFRICAN GEOGARYPIDAE (ARACHNIDA: PSEUDOSCORPIONES). The revision and molecular phylogenetic results are being prepared for publication.



Tharina Bird recently completed her PhD in the USA. The results of her study was published in:
BIRD T., WHARTON, R. & PRENDINI, L. 2015. Cheliceral morphology in Solifugae (Arachnida): primary homology, terminology, and character survey. *Bulletin of the American Museum of Natural History* 394: 1-356.



Greg Canning completed his MSc at the Tshwane University of Technology. He studied the theraphosid *Nesiergus insulanus* (Araneae: Theraphosidae: Ischnolinae) from the Seychelles Archipelago. A detailed ecological study was made, together with the description of the male. He has published several papers from his study (Canning *et al.* 2013, 2014, 2015).



NEWS SNIPPETS

NEW APPOINTMENTS



Robin Lyle has been appointed as a Senior Research Technician in the Biosystematics: Arachnida Unit of the ARC-Plant Protection Research Institute in 2012. She took over at the Spider Unit when Ansie retired in 2013. Robin is busy with her PhD on some genera of the Idiopidae in Africa.

Jan-Andries Neethling has taken up a position as a Researcher in the Department of Arachnology at the National Museum in Bloemfontein, where he will continue taxonomic work on South African pseudoscorpions.



Rudy Jocqué, Ansie and Charles Griswold

RETIREMENTS

Three researchers that have contributed immensely towards our knowledge on African spiders have recently retired, Rudy Jocqué, Ansie Dippenaar-Schoeman and Charles Griswold. Now they have all the time in the world to publish data that has been waiting for years for some attention!

Best of luck to all three!!

SPIDER CLUB 40 YEARS OLD

Congratulations to the Spider Club of Southern Africa, which is 40 years old in 2015. A birthday party was held at the Walter Sisulu Botanical Gardens in Roodepoort in June. Three of the original founder members were present, namely Astri and John Leroy and Ansie Dippenaar-Schoeman. For more information on the Spider Club visit their webpage at: www.spiderclub.co.za



The birthday cake



SOME CONGRESSES AND OTHER SCIENTIFIC MEETINGS 2013-2015

19th International Congress of Arachnology

From 23–28 June 2013 a delegation of South African researchers attended the 19th International Congress of Arachnology at the Howard Beach Resort, Kenting National Park in Taiwan. The congress was very well organised by I-Min Tso and his team, and was attended by 231 delegates from 42 countries. The South African team presented five papers and a poster.

- Charles Haddad was elected on the ISA council for the next three years
- Jan-Andries Neethling received the second prize for best student paper in the Systematics and Evolution category



Some of the South African contingent at ICA 19 (L to R): Karin and Stefan Foord, Charles Haddad, Jan-Andries Neethling and Robin Lyle.

19th Congress of the Entomological Society of Southern Africa

The 19th Biannual Congress of the Entomological Society of Southern Africa (ESSA) was hosted jointly with the 37th Biannual congress of the Zoological Society of Southern Africa (ZSSA) by the Department of Zoology and Entomology at Rhodes University, Grahamstown between the 12th and 17th of July 2015.

Robin Lyle reported on her PhD study during a speed talk session, for which she won the best talk award.



Annual Diamond Route Research Conference in Johannesburg



The Diamond Route research Conferences are every year held in Johannesburg over a two-day period. SANSA (South African National Survey of Arachnida) is involved in several projects on some of the Diamond route reserves. The spider team has participated at all the conferences held so far, reporting on surveys at the Benfontein Nature Reserve, Ezemvelo Nature Reserve, Rooipoort Game Farm, Venetia Mine Reserve and the Tswalu Kalahari Reserve.

SPIDER OPEN DAY



A Spider Open Day was held on 1 November 2014 in the Irene Village Hall, Gauteng, South Africa. The aim of the day was to generate interest in the Spiders in Cities Monitoring project. It was well attended, and various activities and demonstrations took place.

WORKSHOPS AND SPIDER IDENTIFICATION COURSES

Several workshops and spider identification courses were presented at Biosystematics on spiders to interns of the South African Biodiversity Institute (SANBI), as well as the Spider Club.

Ansie Dippenaar-Schoeman was invited to present an arachnid course to >40 Honor-ary Rangers. The course consisted of an afternoon course on the scorpions of South Africa, followed by two day-long courses dealing with all aspects of spider morphology, behaviour and identification. The course was supported by an 80 page full colour manual dealing with all the common spiders.



THICKET FORUM

Linda Wiese represented SANSA at the Thicket Forum held in Port Elizabeth from 29 September to 1 October 2015. Linda presented a talk titled 'Spider diversity of the Addo Elephant National Park'. Twenty papers and one poster were presented at the forum. Albany Thicket is unique to the Eastern Cape and threatened by agriculture and goat farming.



NEW FACTSHEET SERIES

Owing to the large number of queries received about spiders from the public, the Spider Unit at the ARC-PPRI decided to produce a factsheet series on those most frequently enquired about. Seven factsheets are available for download from the ARC website (<http://www.arc.agric.za/arc-ppri/Pages/Biosystematics/SANSA.aspx>).





AFRICAN ARACHNIDA DATABASE (AFRAD)

The African Arachnida Database (AFRAD) is an initiative that was started in 1997, and aims to serve as an information system on the Arachnida of the Afrotropical Region. It functions as an umbrella project dedicated to the unification and enhancement of biosystematics research on arachnids in Africa and the adjacent islands. It is committed to help conserve the biological diversity of African arachnids through the improvement of scientific knowledge. Participation is based on free association and collaboration, and gives specialists of the various arachnid groups the opportunity to manage and co-ordinate their own field of expertise while receiving full credit for their inputs.

AFRAD was initiated in 1997 by the ARC-Plant Protection Research Institute, Pretoria, South Africa and the Koninklijk Museum voor Midden-Afrika in Tervuren, Belgium.

BOOK CHAPTER ON AFRICAN SPIDER DIVERSITY

As part of a book titled "Spider Research in the 21st Century", edited by Dave Penney, a chapter titled "Biodiversity: An African Perspective" was written by Rudy Jocqué, Mark Alderweireldt and Ansie Dippenaar-Schoeman. This was the first comprehensive overview of spider diversity on the continent, and included a country-by-country assessment of species richness. South Africa is by far the best studied country, with more than 2000 species, followed in diversity by six countries with between 500 and 1000 published species records (Namibia, Madagascar, Kenya, Tanzania, Ethiopia and D.R. Congo). These results are further reflected in available data on species richness in different latitudinal belts, with records from the MRAC (Royal Museum for Central Africa in Belgium) indicating higher richness in the equatorial and southern tropical latitudes. While this reflects the distribution of sampling records in this particular collection, it also indicates that the northern tropics and subtropics are particularly inadequately sampled.

A discussion of biogeography within the context of mountain ranges and their distribution in the region provides useful insights into the distribution of taxa, particularly strictly Afromontane groups. Various other aspects of spider diversity region are discussed, including contrasting distribution patterns of different genera and how these are linked to vegetation types; altitudinal distribution of Linyphiidae and Salticidae as components of spider assemblages; influence of habitats on the relative sizes of species of Linyphiidae; and an assessment of the species richness of the genera described from the region.

This study is a welcome overview of our knowledge of African spider diversity, and the detailed analyses of the factors influencing spider species and local richness are very insightful. This chapter is a must-read for any researchers interested in studying African arachnids.

JOCQUÉ, R., ALDERWEIRELDT, M. & DIPPENAAR-SCHOEMAN, A. 2013. Biodiversity, an African perspective. In: Penney D. (ed.) *Spider Research in the 21st Century*. pp.18-57. Siri Scientific Press. Rochdale, U.K.

SOUTH AFRICA

A very important 31 page paper has recently been published, summarising the results of the 18 years that SANSA has existed. The paper was a joint effort of the SANSA team members. It shows the role SANSA has played in unifying and strengthening arachnid research, with the major thrust to discover the spider diversity in South Africa. We discuss the present status of knowledge, constraints to improving this, and the future directions for research.

SANSA has provided the foundations for a more integrative approach to spider diversity research. Future research should build on this legacy by linking taxonomic diversity with functional diversity, predicting the response of this diversity to global change drivers.

Functional approaches link these studies to ecosystem processes. Global collaborative studies at several sites following standardised sampling protocols and focused research questions would add value to the SANSA collection and the importance of spiders for the health of ecosystems.

DIPPENAAR-SCHOEMAN, A.S., HADDAD, C.R., FOORD, S.H., LYLE, R., LOTZ, L.N. & MARAIS, P. 2015. South African National Survey of Arachnida (SANSA): review of current knowledge, constraints and future needs for documenting spider diversity (Arachnida: Araneae). *Transactions of the Royal Society of South Africa* 70: 245-275.

LESOTHO

The first dedicated paper on Lesotho spiders was recently published, and included an overview of published records from the country. Including the 31 species of Salticidae reported in this paper, the number of published spider records from the country now totals 67 species.

WESOŁOWSKA, W. & HADDAD, C.R. 2014. Notes on the jumping spiders of Lesotho (Araneae: Salticidae), with descriptions of six new species. *African Invertebrates* 55: 229-268.

SUDAN

Manal Siyam has been collecting arachnids in the Republic of Sudan, and has recently published two papers providing an overview of the spiders from the country. Based on this data, 119 species are now known from the Republic of Sudan and 59 species from South Sudan.

DUNLOP, J.A. & SIYAM, M. 2014. Spiders of Sudan: a literature review. *Arachnology* 16: 161-175.

SIYAM, M., DUNLOP, J.A. & EL-HENNAWY, H.K. 2015. New spider records from the Republic of the Sudan. *Arachnology* 16: 264-272.

NIGERIA

Nigeria has also received increased attention related to its spider fauna in recent years. Wanda Wesolowska published two comprehensive taxonomic papers on Salticidae with G.B. Edwards and Tony Russell-Smith, and recently a paper was published on spider assemblages in south-western Nigeria. Ph.D student Daniel Nwankwo of the Federal University Oye-Ekiti is also studying spider diversity from the Akwa region.

OYEWOLE, O.A. & OYELADE, O.J. 2014. Diversity and distribution of spiders in Southwestern Nigeria. *Natural Resources* 5: 926-935.



RESEARCHERS VISITING AFRICA

During the last three years several international researchers have visited countries in Africa for collecting, visiting collections and carrying out research:

RUDY JOCQUÉ

Rudy and Arnaud Henrard attended the 11th AFRAS Colloquium in 2014, and subsequently Rudy and his wife Elizabeth collected in the Western and Eastern Cape., while Arnaud spent some time rock-climbing. Rudy also visited South Africa in 2013 and 2015 to collect zodariids and other spiders in KwaZulu-Natal, and examine material at the National Collection of Arachnida in Pretoria (NCA), which has contributed specimens to several publications.

YURA MARUSIK

Yura and his wife Irena attended the 11th AFRAS Colloquium, their first, spent a month in South Africa collecting in KwaZulu-Natal and the Free State Provinces. They also hosted the first Russian party to be held at an AFRAS Colloquium, which was well received by all of the delegates. This event is a standard occurrence at International Arachnology congresses.

TONY RUSSELL-SMITH

Tony and his wife Michelle visited South Africa during 2014. Although this was more of a holiday, they spent some time collecting in the Drakensberg Mountains of South Africa.

MATJAZ KUNTNER

Matjaz, his students and collaborators have made several trips to Africa during the last three years, focusing on biological and phylogenetic research on nephilid spiders, and the genera *Anelosimus* (Theridiidae) and *Caerostris* (Araneidae). During February 2015 they visited several reserves in northern KwaZulu-Natal, South Africa to study the biology of *Nephila* spiders, focusing on populations of *Nephila komaci* and *N. inaurata* in Ndumo Game Reserve and Tembe Elephant Park. Amongst others, they found males of these two species often occurring in webs of non-conspecific females in the same habitat.

LORENZO PRENDINI

From November 2012-February 2013, Lorenzo did fieldwork in Zimbabwe and South Africa. He also completed identifications of all scorpions in the Bulawayo Museum (NMZA) and most of material in the Ditsong National Museum of Natural History (TMSA). In 2014, he visited South Africa twice (April-May and July-September), again doing fieldwork and visiting museums. He completed the identifications of the collections of the Iziko South African Museum (SAM) in Cape Town and the Albany Museum in Grahamstown (AMG), plus what was left to do in the TMSA. During February-April 2015 he collected in four countries: he started in Tanzania, then went to Angola, followed by Namibia and South Africa (including the first survey of scorpions in Transkei). He also completed the identifications of all scorpions in the museums in State Museum in Windhoek (SMN) and the KwaZulu-Natal Museum in Pietermaritzburg (NMSA).

GALINA AZARKINA

Galina, a specialist on the taxonomy of jumping spiders, visited South Africa for two and a half months during 2015. The purpose of her visit was to identify material from various collections and examine the type specimens of species included in genera currently under revision. During the trip she spent considerable time working on the collections of the National Collection of Arachnida in Pretoria (NCA), National Museum in Bloemfontein (NMBA), KwaZulu-Natal Museum in Pietermaritzburg (NMSA), Iziko South African Museum in Cape Town (SAM) and the Ditsong National Museum of Natural History (TMSA). She also spent a few weeks working with Stefan Foord at the University of Venda. A massive amount of data was generated, with the identifications making a significant contribution towards the South African National Survey of Arachnida (SANSA), with improved distribution data for many species. Several taxonomic papers will be published based on this work.

STANO PEKÁR

In March 2013, Stano and his students visited the University of the Free State in Bloemfontein, South Africa for collaborative research on predatory specialist spiders. Their research involved laboratory and field studies on the diet and feeding behaviour of *Ammoxenus* (Ammoxenidae), as well as palpimanid and zodariid spiders. This work was invaluable in confirming *A. amphalodes* as the first truly monophagous predator, feeding exclusively on *Hodotermes mossambicus* termites and no other prey, even other termites. Research continues into the venomous and behavioural adaptations of various predatory specialists, with next generation sequencing providing additional clues on prey utilization in the field.

FRANTICEK STAHLAVSKY

Franta and two students visited the University of the Free State for three weeks to continue collaborative work in the karyology of various arachnid orders. This included a field trip, with Jan-Andries Neethling as their guide, to various localities in the Eastern Cape, KwaZulu-Natal and Free State Provinces in South Africa. A total of 470 specimens of the orders Pseudoscorpiones, Scorpiones, Araneae, Amblypygi and Opiliones were prepared for chromosome analysis, covering a broad range of families. Various publications will be produced from this work.

JONATHAN PRUITT

Jonathan and his students from the University of Pittsburg in the U.S.A. have spent long periods of the last three years performing research on social eresid spiders (*Stegodyphus*) in Namibia and South Africa. This includes work on colony dynamics, aggression levels of individuals, and feeding behaviour.

BERNHARD HUBER

Continuing his work on tropical African daddy long-legs spiders (Pholcidae), Bernhard visited Ghana during February-March 2013. He collected mainly in tropical forests in the south of the country, discovering several new species and recording many more species from the country for the first time.

- ANDRIAMALALA, D. & HORMIGA, G.** 2013. Systematics of the goblin spider genus *Opopaea* (Araneae, Oonopidae) in Madagascar. *Bulletin of the American Museum of Natural History* 380: 1–156.
- AZARKINA, G.N. & FOORD, S.H.** 2013. Redescriptions of poorly known species of jumping spiders (Araneae: Salticidae) from South Africa and Namibia. *Zootaxa* 3686: 165–182.
- BÄCKSTAM, C.M., DROLSHAGEN, B. & SEITER, M.** 2013. A new species of the African spider genus *Lathrothele* Benoit, 1965 (Araneae: Dipluridae) from Gabon. *Arachnology* 16: 68–72.
- BAYER, S. & SCHÖNHOFER, A.L.** 2013. Phylogenetic relationships of the spider family Psecridae inferred from molecular data, with comments on the Lycosoidea (Arachnida: Araneae). *Invertebrate Systematics* 27: 53–80.
- BOSSELAERS, J.** 2013. An alien in the grapes: a potentially aggressive African spider imported into Belgium. *Nieuwsbrief van de Belgische Arachnologische Vereniging* 28: 22–28.
- BOSSELAERS, J. & JOCQUÉ, R.** 2013. Studies in Licranidae (Araneae): a new afrotropical genus featuring a synapomorphy for the Cybaeodinae. *European Journal of Taxonomy* 40: 1–49.
- CANNING, G., REILLY, B.K. & DIPPENAAR-SCHOEMAN, A.S.** 2013. First description of the male of *Nesiergus insulanus* (Araneae: Theraphosidae: Ischnolineae) from the Seychelles Archipelago. *African Invertebrates* 54: 241–244.
- CERVEIRA, A.M. & JACKSON, R.R.** 2013. Love is in the air: olfaction-based mate-odour identification by jumping spiders from the genus *Cyrra*. *Journal of Ethology* 31: 29–34.
- CERVEIRA, A.M. & JACKSON, R.R.** 2013. Love is in the air and on the ground: olfactory and tactile cues elicit visual courtship behavior by *Cyrra* males (Araneae: Salticidae). *Journal of Arachnology* 41: 374–380.
- COSTA, C. & CONTI, E.** 2013. Opening and closing of burrows by the Namibian spider *Ariadna* sp. (Araneae: Segestriidae) in a year of heavy rainfall. *Journal of Arachnology* 41: 215–218.
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Stenaelurillus guttiger



Stenaelurillus natalensis



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Pseudomicrommata sp. see Moradmand (2015). Photo: P.Webb

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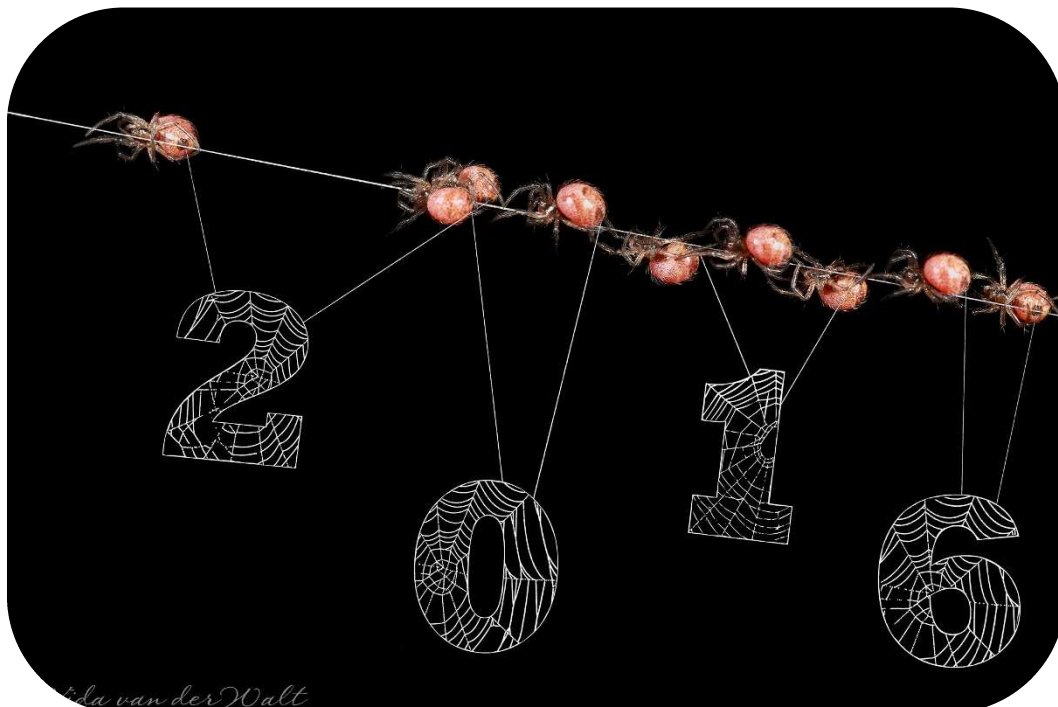
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