

PROGRAMME	
Sunday 12 May 2019	
14:00 – 18:00	Reception of delegates and registration
18:00 – 21:00	Welcoming function
Monday 13 May 2019	
07:30 – 08:00	Late registration
08:00 – 08:10	Welcome – MC Pretorius – President of the NSSA
08:10 – 08:20	Symposium arrangements – Mieke Daneel – Symposium Chairperson
08:20 – 09:00	Opening speaker: Prof Heinz Beckedahl Land degradation, erosion control and rehabilitation of soil erosion in Southern Africa
SESSION 1: INTEGRATED MANAGEMENT STRATEGIES CHAIRPERSON – RINUS KNOETZE	
09:00 – 09:30	Keynote speaker: Gerard Korthals Management strategies to manipulate nematodes, soil biodiversity and disease suppressiveness
09:30 - 09:45	Nematode community management on tomatoes in South Africa Mieke Daneel
09:45 – 10:00	Disrupting the chemical-ecology interactions of the <i>Solanum tuberosum-Globodera rostochiensis</i> pathosystem through the use of the wrap & plant technology Danny Coyne
10:00 – 10:15	An alternative to methyl bromide and heat treatments for controlling pine wilt disease of timbers Miloslav Zouhar
10:15 – 10:30	Pre-plant strategies to limit infection of tomato by plant-parasitic nematodes Lesego Matlala
10:30 – 11:00	Refreshments
SESSION 2: THE FUTURE OF NEMATODE CONTROL CHAIRPERSON – DIRK UYS	
11:00 – 11:15	Introduction Dirk Uys
11:15 – 11:30	The influence of plant-parasitic nematodes in row crops (maize & soya) and new developments in control Andrew Bennet
11:30 – 11:45	Control strategies for the citrus nematode, <i>Tylenchulus semipenetrans</i> , in South Africa MC Pretorius
11:45 – 12:00	An economic case study of the impact of nematodes on the potato industry Andre Jooste
12:00 – 12:30	Panel discussion – fireside talk
12:30 – 13:30	Lunch
SESSION 3: MORPHOLOGY, TAXONOMY AND BIOLOGY CHAIRPERSON – ZAKHELENI DUBE	
13:30 – 13:45	On the identity of <i>Helicotylenchus pseudorobustus</i> and <i>Helicotylenchus microlobus</i> Ebrahim Shokoohi
13:45 – 14:00	Mitochondrial DNA-based identification of <i>Meloidogyne enterolobii</i> , <i>M. javanica</i> and <i>M. incognita</i> from pineapple roots and cultivated soils in Kenya Emmanuel Olajide
14:00 – 14:15	Molecular identification of plant-parasitic nematodes from honeybush (<i>Cyclopia</i> spp.) in the Western Cape province, South Africa Fisayo Daramola
14:15 – 14:30	A preliminary study of the ultrastructure of <i>Meloidogyne incognita</i> second-stage juveniles exposed to Cucurbitacins Zakheleni Dube
14:30 – 14:45	Diversity of root-lesion nematodes (<i>Pratylenchus</i> spp.) in apple orchards in the Western Cape, South Africa: a case of mistaken identity? Rinus Knoetze
15:00 – 15:15	Interaction between <i>Meloidogyne</i> spp., root rot complex and <i>Busseola fusca</i> on maize Sonia Steenkamp
15:15 – 15:30	A comparative study of the development and life cycle duration of <i>Meloidogyne enterolobii</i> and other thermophilic South African <i>Meloidogyne</i> species Raymond Collett
15:30 – 15:50	Refreshments
POSTER SESSION 1: 15:50 - 17:50	

CHAIPERSON – AKHONA MBATYOTI AND NOMAKOLWA STOKWE	
18:00 for 18:30	Pub evening
Tuesday 14 May 2019	
SESSION 4: ENTOMOPATHOGENIC NEMATODES CHAIRPERSON – DEIDRE ODENDAAL	
08:00 – 08:30	Keynote speaker: Ernesto San-Blas Looking at nematodes with different eyes: the use of infrared spectroscopy in nematology research
08:30 – 08:45	Evaluating <i>in vivo</i> and <i>in vitro</i> cultured entomopathogenic nematodes for the control of <i>Lobesia vanillana</i> (Lepidoptera: Tortricidae) under laboratory conditions Francois du Preez
08:45 – 09:00	The use of 95% homozygous inbred lines to stabilise beneficial traits of entomopathogenic nematodes Tshima Ramakuwela
09:00 – 09:15	Double trouble: incorporating entomopathogens into the codling moth pest management strategy Deidre Odendaal
09:15 – 09:30	Biocontrol potential of bacteriophage nematodes for the control of invasive molluscs Annika Pieterse
09:30 – 09:45	Production optimisation of <i>Steinernema jeffreyense</i> in shake flasks Murray Dunn
09:45 – 10:00	Control of <i>Thaumatotibia leucotreta</i> in South African avocado, litchi and macadamia orchards, using entomopathogenic nematodes Willem Steyn
10:00 – 10:15	Morphometrics of <i>Steinernema feltiae</i> exposed to cucurbitacin-containing phytonematicides Phatu Mashela
10:15 – 10:30	Prospects for using entomopathogenic nematodes as a biocontrol agent of western flower thrips, <i>Frankliniella occidentalis</i> (Thysanoptera: Thripidae) Thandwa Dlamini
10:30 – 11:00	Refreshments
SESSION 5: CHEMICAL AND BIOLOGICAL CONTROL CHAIRPERSON – JAQUELINE MADAURE	
11:00 – 11:15	The Discovery of Nematicides – An Industrial Approach Brigitte Slaats
11:15 – 11:30	Integrated pest management of <i>Meloidogyne incognita</i> with nemafric-BL phytonematicide and two biocontrol agents Jaqueline Madaure
11:30 – 11:45	Rekleme [™] active: a new molecule for the control of plant-parasitic nematodes Tim Thoden
11:45 – 12:00	Nematicidal activity of botanical plant extracts and fractions against <i>Meloidogyne incognita</i> race 2 Candy Khosa
12:00 – 12:15	Nematode control from a Villa Crop Protection perspective Carolien van Zyl
12:15 – 12:30	Overall sensitivity of nematode-infected cancer bush to nemafric-BL phytonematicide Tsobedi Masenya
12:30 – 12:45	Salibro [™] : a novel tool for the control of <i>Meloidogyne</i> species in South Africa. Yannis Stamatias
12:45 – 13:00	Evaluation of biological control agents and nematicides for a more integrated control of <i>Meloidogyne</i> spp. on cotton in South Africa Siphiwe Khuzwayo
13:00 – 14:00	Lunch
SESSION 6: NEMATODE DISTRIBUTION CHAIRPERSON – CHANTELLE GIRHAN	
14:00 – 14:15	Plant-parasitic nematodes of the rhizosphere of watermelon crops in South-West Nigeria Tesleem Bello
14:15 – 14:30	The broadening geographic distribution of potato cyst nematodes in East Africa and its implications for regional potato production Danny Coyne
14:30 – 14:45	Abundance and diversity of nematodes in a maize field under conservation agriculture Nancy Ntidi

14:45 – 15:00	Plant-parasitic nematodes infecting maize in subsistence maize-based agricultural areas of South Africa, with special emphasis on root-knot nematodes Lucas Ngobeni
15:00 – 15:15	Irrigation water quality and the potential threat it poses to soil ecosystem health Gerhard du Preez
15:15 – 15:30	Elucidating the identity of <i>Meloidogyne</i> species that are morphologically similar using genomic data Milad Radishifard
15:30 – 16:00	Refreshments
POSTER SESSION 2: 16:00 - 18:00 CHAIRPERSON – AKHONA MBATYOTI AND NOMAKOLWA STOKWE	
18:00 -	Dinner
Wednesday 15 May 2019	
SESSION 7: NEMATODE DIVERSITY CHAIRPERSON – GERHARD DU PREEZ	
08:00 – 08:30	Keynote speaker: Nabil Majdi Free-living nematodes in freshwater ecosystems
08:30 – 08:45	Nematodes of the Willem Pretorius Nature Reserve in the Free State province, South Africa Anke de Smidt
08:45 – 09:00	Nematode succession in a potato-based rotation system in Free State province, South Africa Mariette Marais
09:00 – 09:15	Plant-parasitic nematodes of the Telperion Nature Reserve, Mpumalanga, South Africa Chantelle Girgan
09:15 – 09:30	Ground-cover management in organic orchards: the effect on free-living nematode communities Caro Kapp
09:30 – 09:45	Nematofauna of the Soetdoring Nature Reserve in the Free State province, South Africa Candice Jansen van Rensburg
09:45 – 10:00	What do we know about nematodes in caves? Gerhard du Preez
10:00 – 10:30	Refreshments
SESSION 8: ALTERNATIVE CONTROL STRATEGIES CHAIRPERSON – CANDY KHOSA	
10:30 – 10:45	Juice and oil soil amendments of five citrus species for the control of <i>Meloidogyne</i> spp. on tomato under field conditions Grace Tefu
10:45 – 11:00	Utilisation of an untargeted metabolomics approach to assist research of nematicidal <i>Bacillus</i> species Gerhard Engelbrecht
11:00 – 11:15	African night shade inspired ‘dead-end-trap’ technology reduces potato cyst nematode (PCN; <i>Globodera rostochiensis</i>) infestation Solveig Haukeland
11:15 – 11:30	Effect of hot water treatment of rooted grapevine nursery stock on the survival of the root-knot nematode, <i>Meloidogyne javanica</i> (Nematoda: Haplolaimidae) Rinus Knoetze
11:30 - 11:45	Towards improved resistance to nematodes in sugarcane: preliminary studies Prabashnie Ramouthar
11:45 – 12:00	Host response of glyphosate-tolerant soybean cultivars to <i>Meloidogyne</i> and <i>Pratylenchus</i> spp. Akhona Mbatyoti
12:00 - 12:15	Effect of <i>Meloidogyne incognita</i> on growth, yield and nutritional quality of bio-fortified cassava (<i>Manihot esculenta</i>) cultivars in Nigeria Aminat Akinsanya
12:15 – 12:30	Influence of sugarcane aphid on resistance of sweet stem sorghum to <i>Meloidogyne incognita</i> Koena Maleka
12:30 – 12:45	A comprehensive survey of nematology training and research in Sub Saharan Africa: current status and future prospects Laura Cortada
12:45 – 13:45	Lunch
SESSION 9: WORKSHOP ON LEGISLATIVE MATTERS CHAIRPERSON – MARIETTE MARAIS	
13:45 – 15:45	Workshop Riana Jacobs and Nepfumbada Thilivhali
15:45 – 16:05	Refreshments

16:05 – 17:20	Biennial General Meeting (BGM)
18:00 for 18:30	Gala dinner
Thursday 16 May 2019	
07:00 – 09:00	Breakfast, handing in of keys and departure Transport to OR Tambo International Airport will depart from Kloppenheim at 09:00 sharp

POSTER SESSION 1: MONDAY 13 MAY 2019, 15:50 – 17:50	
1	Utilising secondary metabolites of <i>Bacillus</i> for potential biocontrol of <i>Meloidogyne incognita</i> Gerhard Engelbrecht
2	Combined effects of three phytonematicides on <i>Meloidogyne incognita</i> and growth of nematode resistant sweet stem sorghum Koena Maleka
3	Identification and distribution of nematode assemblages in an irrigated maize field and associations with soil properties Ané Loggenberg
4	Specimens of an entomophylic species of the genus <i>Cruznema</i> found in a maize field in the Free State province, South Africa Antoinette Swart
5	Terrestrial, non-parasitic nematode assemblages of the rhizospheres of watermelon in South-West Nigeria: a first report Tesleem Bello
6	Response of <i>Steinernema feltiae</i> infective juveniles to nemarioc-AL phytonematicide Jacqueline Madaure
7	Occurrence, distribution and diversity of potato cyst nematodes in Nyandarua County, Kenya Solveig Haukeland
8	Biodiversity of nematode associated with cancer bush in Limpopo province, South Africa Ebrahim Shokoohi
9	The citrus nematode, <i>Tylenchulus semipenetrans</i> , as part of the Integrated Pest Management approach of the citrus industry Elaine Basson
10	<i>Steinernema litchii</i> n. sp. (Rhabditida: Steinernematidae), a new entomopathogenic nematode from South Africa Willem Steyn
11	Combined application of entomopathogenic nematodes and fungi against <i>Pseudococcus viburni</i> (Hemiptera: Pseudococcidae) Letodi Mathulwe
12	The recycling of waste soil in sugar refinery - possible risk of nematode contamination Marie Mañasová
13	Nematodes associated with soils subjected to a wheat-canola-wheat-lupin rotation at Langgewens Research Farm, Western Cape province, South Africa Mariette Marais
14	Reaction of twenty drought-tolerant maize varieties to <i>Pratylenchus zae</i> and management of the nematode with <i>Tithonia diversifolia</i> (Hemsl.) A Gray Omowumi Adewuyi
15	The use of tomato plant root-exudates to enhance root-knot nematodes egg hatching Phillip Malatji
16	<i>In vitro</i> liquid culture of <i>Steinernema yirgalemense</i> in shake flasks as a biological control agent for plant protection Nolubabalo Ndaliso
POSTER SESSION 2: TUESDAY 14 MAY 2019, 16:00 – 18:00	
17	The national collection of nematodes Antoinette Swart
18	Quality of cucurbitacin-containing phytonematicides improves with storage time at room temperature over 4 years Phatu Mashela
19	Host status of several commercially available sunflower cultivars to root-knot nematodes Sonia Steenkamp
20	A new method for field treatment of soil against to northern root-knot nematode <i>Meloidogyne hapla</i> Marie Mañasová
21	Evaluating <i>Lantana camara</i> plant parts collected over different seasons on their root-knot nematode suppressive effect

	Philip Malatji
22	Effect of nematicidal phytonematicide on <i>Meloidogyne javanica</i> and overall sensitivity of cancer bush to this product Tsobedi Masenya
23	Determination of the effect of tomato (<i>Lycopersicon esculentum</i> Mill) root exudates on nematode development Rachel Mohlala
24	The effect of orange and lemon juice concentrations in reducing <i>Meloidogyne incognita</i> populations and on tomato growth Grace Tefu
25	A novel and rapid technique for culturing <i>Aphelenchoides</i> spp. parasitizing bananas in Kenya Janet Atandi
26	Plant-parasitic nematodes associated with bush tea (<i>Athrixia phyllicoides</i>) in the North-Eastern parts of South Africa Itani Guga
27	Reproduction potential of twelve <i>Meloidogyne</i> populations from South Africa Milad Rashidifard
28	Nematode assemblages associated with three oil-bearing crops in the Giyani region, Limpopo province, South Africa Ndivuhoho Mudau
29	The efficacy of Velum® Prime in reducing <i>Meloidogyne incognita</i> population densities in maize and soybean roots Marne Pretorius
30	The dual endophytes <i>Beauveria bassiana</i> and <i>Fusarium oxysporum</i> reduce <i>Radopholus similis</i> infection on East African Highland Banana James Kisaakye
31	Morphological, morphometrical and molecular variability of two Cephalobid species (Nematoda: Rhabditida) from Iran and South Africa Ebrahim Shokoohi
32	Improved nematode management on yam through the use of a local moderately resistant variety and seed yam treatment Danny Coyne