



22nd Hybrid Congress of the Entomological Society of Southern Africa

28 June-1 July 2021 | Tshipise, Forever Resort

PROGRAMME



University of Venda

Correct as on 08 June 2021



MONDAY 28 JUNE 2021

Time	Theme	Title	Speaker
15h00	Registration opens – Poster Viewing/Industry Networking		
<i>Session Chair: Prof. Stefan Foord</i>			
17h00	Opening session	<ul style="list-style-type: none"> Welcome and Opening 	Prof. J.E. Crafford <i>Deputy Vice Chancellor: Academic, University of Venda</i>
17h15		<ul style="list-style-type: none"> Keynote - Lay Entomology in South Africa 	Prof. Erik Holm
18h00	Meet and greet (light snacks and drinks)		

TUESDAY 29 JUNE 2021

Time	Theme	Title	Speaker
<i>Session Chair:</i>			
09h00	Keynote	<ul style="list-style-type: none"> How far are we from the insect apocalypse? 	Prof. Pedro Cardoso
09h45	Integrated Pest Management	<ul style="list-style-type: none"> The control of <i>Bathycoelia distincta</i> (Hemiptera: Pentatomidae) with indigenous <i>Beauveria bassiana</i> isolates, under laboratory and semi-field conditions 	Lungile Linda
10h00		<ul style="list-style-type: none"> Status and management of the invasive Oriental fruit fly (Diptera: Tephritidae) in South Africa 	Aruna Manrakhan
10h15		Questions & Answers	
10h30	Mid-morning refreshments/Industry networking		

- Live Presentation
- Virtual Presentation



Time	Theme	Title	Speaker
10h45	Integrated Pest Management	▪ Control of the obscure mealybug, <i>Pseudococcus viburni</i> (Hemiptera: Pseudococcidae) using entomopathogenic fungi and nematodes	Letodi Mathulwe
11h00		▪ Environmental and socioeconomic impacts of regulated and intercepted invertebrates' species	Moleseng Moshobane
11h15		▪ The use of an anthranilic diamide insecticide for mating disruption of <i>Thaumatotibia leucotreta</i>	Melissa Peyper
11h30		▪ Attract and kill products for Tephritid pests: How effective are they?	Leani Serfontein
11h45		▪ A comparison of <i>Thaumatotibia leucotreta</i> (Meyrick) (Lepidoptera: Tortricidae) infestation in organic versus conventional citrus orchards	Luke Cousins
12h00		▪ Cold treatment of <i>Ceratitis capitata</i> (Diptera: Tephritidae) in citrus	John-Henry Daneel
12h15		• Thrips on table grapes: who are the culprits and what are the options for sustainable management?	Elleonorah Allsopp
12h30		• Fruit Flies on mango	Tertia Grové
12h45		Questions & Answers	
13h00	Lunch & Poster Viewing		Online Oral-Poster Speed Sessions (refer page 8)
14h00	Integrated Pest Management	• Host preference of <i>Spondyliopsis</i> cf. <i>plicatuloides</i> and <i>Glycaspis brimblecombei</i> on selected eucalypts in South Africa	Privilege Makunde
14h15		• Investigation into armoured scale insects (Hemiptera: Diaspididae) affecting South African walnut production and biological control focused management strategies	Pieter van der Merwe
14h30		Questions & Answers	
14h45	Other/Open Topics	▪ <u>Biosecurity</u> - Preparing for the disaster – actions to protect the southern African citrus industry from imminent arrival of Huanglongbing (Asian Citrus Greening) disease	Wayne Kirkman
15h00		▪ <u>Entomophagy</u> - Indigenous knowledge about the consumption of edible insects in South Africa	Zabentungwa Hlongwane
15h15		Questions & Answers	
15h30	Mid-afternoon refreshments/Industry networking		
15h45	Other/Open Topics	▪ <u>Insect Ecology</u> - Comparative demography of <i>Ceratitis rosa</i> and <i>Ceratitis quilicii</i> (Diptera: Tephritidae) on three fruit types	Seth Tsatsu
16h00		▪ <u>Invasive species</u> - Population genetics uncovers how the Harlequin Ladybird, <i>Harmonia axyridis</i> (Coleoptera: Coccinellidae) invaded, and moves within, South Africa	Amy Collop
16h15		▪ <u>Medical/Veterinary Entomology</u> - The utilisation of CytB and COI barcodes for the identification of bloodmeals and <i>Culicoides</i> species (Diptera: Ceratopogonidae) reveals a variety of novel wildlife hosts in South Africa	Loki Snyman
16h30		• <u>Genetics</u> - Diversity of stink bugs (Hemiptera: Pentatomidae) in macadamia orchards in South Africa	Byron Sonnekus
16h45		• <u>Parasite-host interactions, nutrition</u> - Prisoners receive food fit for a queen: Honeybees' feed small hive beetles protein-rich glandular secretions through trophallaxis	Ezette du Rand
17h00		Questions & Answers	
17h15	Close Day 2		
18h00	Welcome Reception (in person attendees only)		Baobab Veranda

- Live Presentation
- Virtual Presentation

BAOBAB VENUE				MOPANI VENUE			
Time	Theme	Title	Speaker	Time	Theme	Title	Speaker
09h00	Keynote	<ul style="list-style-type: none"> Insect conservation in agricultural landscapes and the role that novel farming practices can play for the sustainable management of insect diversity and associated ecosystem services 	Prof. Ingo Grass	09h00	Keynote address in Baobab Venue		
09h45	Parallel Sessions to start at 10h00						
10h00	Insect Physiology	<ul style="list-style-type: none"> Effects of low temperature tolerance on ecological service delivery in coprophagic beetle species (Coleoptera: Scarabaeidae) 	Nonofo Gotcha	10h00	Insect Conservation	<ul style="list-style-type: none"> The South African National Red List of spiders: patterns, threats, and conservation 	Stefan Foord
10h15		<ul style="list-style-type: none"> Thermal resilience of <i>Prostephanus truncatus</i> (Horn): Can we derive optimum temperature-time combinations for commodity treatment? 	Honest Machekano	10h15		<ul style="list-style-type: none"> Effect of long-term burning and mowing regimes on ant communities in a mesic grassland 	Lindiwe Khoza
10h30		<ul style="list-style-type: none"> Costs of thermal plasticity on lepidopteran stemborers <i>Chilo partellus</i> (Swinhoe), <i>Busseola fusca</i> (Fuller) and <i>Sesamia calamistis</i> Hampson 	Precious Mpofu	10h30		<ul style="list-style-type: none"> Epigeic predator communities' response to contrasting agricultural management systems 	Maria Makwela
10h45		Questions & Answers		10h45		Questions & Answers	
11h00	Mid-morning refreshments/Industry networking						
11h15	Insect Physiology	<ul style="list-style-type: none"> Limited thermal plasticity constrains ecological service delivery in a heat tolerant tropical <i>teleocoprid</i>, <i>Allogymnopleurus thalassinus</i> (Klug, 1855) 	Casper Nyamukondiwa	11h15	Insect Conservation	<ul style="list-style-type: none"> The impact of land use change on arthropod diversity along an elevational gradient 	Sphesihle Mkhungo
11h30		<ul style="list-style-type: none"> Thermal fitness costs and benefits of carry-over effects in <i>Spodoptera frugiperda</i> (J.E. Smith). 	Bame Segaiso	11h30		<ul style="list-style-type: none"> Everything you need to know about KwaZulu-Natal ant biodiversity in ten minutes 	Caswell Munyai
11h45		<ul style="list-style-type: none"> Water balance and desiccation tolerance of the invasive South American tomato pinworm 	Vimbai Tarusikirwa	11h45		<ul style="list-style-type: none"> Are baetids (insecta: ephemeroptera) good biological indicators of physico-chemical pollution in pristine streams of the Luvuvhu River Catchment? 	Pfananani Ramulifho
12h00		<ul style="list-style-type: none"> Thermal biology of the two-spotted stink bug, <i>Bathycoelia distincta</i> (Hemiptera: Pentatomidae) a major pest of macadamia 	Mulalo Muluvhahothe	12h00		<ul style="list-style-type: none"> Flower visitor communities in heavily managed and transformed landscapes – the case of <i>Apis mellifera</i> and invaded remnant patches in Macadamia orchards 	Lorraine Ramotjiki

- Live Presentation
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BAOBAB VENUE				MOPANI VENUE			
Time	Theme	Title	Speaker	Time	Theme	Title	Speaker
12h15	Insect Physiology	<ul style="list-style-type: none"> ▪ Desiccation and temperature resistance of the larger grain borer, <i>Prostephanus truncatus</i> (Horn) (Coleoptera: Bostrichidae): pedestals for invasion success? 	Reyard Mutamiswa	12h15	Insect Conservation	<ul style="list-style-type: none"> ▪ Hoverflies (Diptera: Syrphidae) as pollinators of sunflowers in the Waterberg region area of Limpopo province, South Africa 	Xavier Brits
12h30		<ul style="list-style-type: none"> • Identifying the effects of neonicotinoid pesticides on communication cues produced by foragers of <i>Apis mellifera scutellata</i> (Lepeletier)" 	Eloise Butcher	12h30		<ul style="list-style-type: none"> ▪ Diversity and composition of flightless arthropods in the banana and macadamia plantations 	Vhuawelo Simba
12h45		<ul style="list-style-type: none"> • Does thermal-history affect field dispersal ability of the oriental fruit fly, <i>Bactrocera dorsalis</i> (Hendel), under diverse environmental conditions? 	Kevin Malod	12h45		<ul style="list-style-type: none"> ▪ Does vegetation structure affect assemblages of flightless arthropods in the eucalyptus plantations and the savanna? 	Inam Yekwayo
13h00		Questions & Answers		13h00		Questions & Answers	
13h15	Lunch & Poster Viewing			Online Oral-Poster Speed Sessions (refer page 8)			
14h15	Insect Physiology	<ul style="list-style-type: none"> • Metabolic heat accumulation and development in larval masses of the black soldier fly, <i>Hermetia illucens</i> L. (Diptera: Stratiomyidae), at different stocking rates 	Thulani Masombuka	14h15	Soil Biology & Invasion Biology	<ul style="list-style-type: none"> ▪ Understanding soil macro-and mesofauna community responses to different agroecosystem regimes in the eastern Free State 	Emogine Mamabolo
14h30		<ul style="list-style-type: none"> • Patterns of remating behaviour in <i>Ceratitis</i> (Diptera: Tephritidae) species of varying lifespan 	Tania Pogue	14h30		<ul style="list-style-type: none"> • Fungi in the diet of a springtail (Cyphoderidae: Cyphoda sp.) associated with the snouted harvester termite (Termitidae: Trinervitermes trinervoides) 	Hannelene Badenhorst
14h45		<ul style="list-style-type: none"> • Larval and adult diet affect phenotypic plasticity in the thermal tolerance of the marula fruit fly, <i>Ceratitis cosyra</i> (Walker) (Diptera: Tephritidae) 	Dylan Pullock	14h45		Questions & Answers	
15h00		<ul style="list-style-type: none"> • The functional response of the hypopharyngeal gland in <i>Apis mellifera scutellata</i> workers to the exposure to a social parasite 	Christian Pirk	15h00		<ul style="list-style-type: none"> • The effects of temperature and propagule pressure on the establishment success of <i>Ceratitis capitata</i> (Wiedemann) 	Minette Karsten
15h15		Questions & Answers		15h15		Questions & Answers	
15h30	Mid-afternoon refreshments/Industry networking						

- Live Presentation
- Virtual Presentation

BAOBAB VENUE				MOPANI VENUE			
Time	Theme	Title	Speaker	Time	Theme	Title	Speaker
15h45	Insects for Food & Feed	<ul style="list-style-type: none"> Frass from Black Soldier Flies as a valuable fertilizer and biopesticide for crops 	Consol Kubayi	15h45	Systematics	<ul style="list-style-type: none"> A revision of the hoverfly genera <i>Chrysogaster</i>, <i>Orthonevra</i> (Diptera: Syrphidae: Eristalinae) from the Afrotropical region 	Terence Bellingan
16h00		<ul style="list-style-type: none"> Hot topics and research gaps in bioconversion using insects 	Nina Parry	16h00		<ul style="list-style-type: none"> Rediscovery of <i>Meromacroides meromacriiformis</i> (Diptera: Syrphidae) in South Africa, with a description of the female and notes on the biology 	John Midgley
16h15		Questions & Answers		16h15		<ul style="list-style-type: none"> On new weevil and darkling beetle species from the Soutpansberg, Limpopo Province (Coleoptera: Tenebrionidae and Curculionidae). 	Colin Schoeman & Dawn Cory Toussaint
16h30	Forensic Entomology	<ul style="list-style-type: none"> Entomofauna and their pattern of succession on neonate pigs (<i>Sus scrofa domesticus</i> L.) in the Western Cape Province of South Africa – a spring study 	Adeyemi Adetimehin	16h30		<ul style="list-style-type: none"> The phylogenetic conundrum of <i>Lutzia</i> (Diptera: Culicidae) is only skin deep: insights into mosquito systematics from multigene phylogenies generated through datamining 	Loki Snyman
16h45		<ul style="list-style-type: none"> Using external morphological features of <i>Lucilia sericata</i> (Diptera: Calliphoridae) during the intra-puparial period for age determination in forensic investigations 	Wilmari Uys	16h45		<ul style="list-style-type: none"> A systematic review of Invasive invertebrate species in South Africa 	Sbongiseni Xolo
17h00		<ul style="list-style-type: none"> The first record of <i>Omosita nearctica Kirejtshuk</i> (Coleoptera, Nitidulidae) in South Africa 	Kirstin Williams	17h00		<ul style="list-style-type: none"> Genetic diversity of the two-spotted stink bug <i>Bathycoelia distincta</i> (Pentatomidae) associated to macadamia orchards in South Africa. 	Elisa Pal
17h15		Questions & Answers		17h15		<ul style="list-style-type: none"> Identification, distribution, and genetic diversity of olive lace bugs (Hemiptera: Tingidae) in Western Cape province of South Africa 	Vaylen Hlaka
17h30	Close Day 3			17h30		Questions & Answers	
17h45	Close Day 3			17h45	Close Day 3		
18h00	ESSA AGM (will be livestreamed)						
19h00	Free Time						
19h30	Student Function (for all in-person students and postdocs only)					Bush Boma Braai	

- Live Presentation
- Virtual Presentation

THURSDAY 1 JULY 2021

Time	Theme	Title	Speaker
Session Chair:			
09h00	Keynote	<ul style="list-style-type: none"> Integrated pest management strategies for indigenous and invasive pests of Africa 	Dr Subramanian Sevgan
09h45	Biologic Control	<ul style="list-style-type: none"> The diversity and abundance of ant assemblages in relation to the invader <i>Parthenium hysterophorus</i> L. and its biological control in South Africa 	Fanelesibonge Hlabisa
10h00		<ul style="list-style-type: none"> <i>Polymorphomyia basilica</i> (snow) (Diptera: Tephritidae): preference for, and performance on, different morphotypes of <i>Chromolaena odorata</i> (Asteraceae) in the laboratory 	Thandeka Mahlobo
10h15		<ul style="list-style-type: none"> Understanding the factors related to the low efficacy of <i>Aristaea thalassias</i>, a biological control agent of <i>Leptospermum laevigatum</i> 	Thembehle Mlokoti
10h30		Questions & Answers	
10h45	Mid-morning refreshments/Industry networking		
11h00	Biologic Control	<ul style="list-style-type: none"> Population dynamics of <i>Listronotus setosipennis</i> (Curculionidae), a specialist herbivore on <i>Parthenium hysterophorus</i> (Asteraceae) in South Africa 	Jufter Musedeli
11h15		<ul style="list-style-type: none"> Soil type and soil water content influence the survival and eclosion of insect agents used to control the invader <i>Parthenium hysterophorus</i> 	Ethel Magoso
11h30		<ul style="list-style-type: none"> Biological control for management of alien invasive acacias, has the strategy succeeded in South Africa? 	Pride Mudavanhu
11h45		<ul style="list-style-type: none"> Evaluation of <i>Megabruchidius tonkineus</i> (Coleoptera: Chrysomelidae: Bruchinae), a candidate biological control agent for <i>Gleditsia triacanthos</i> L. (Fabaceae) in South Africa 	Sara Salgado Astudillo
12h00		<ul style="list-style-type: none"> Biological control of the Eucalyptus Snout Beetle by <i>Anaphes nitens</i> (Hymenoptera: Mymaridae) over an elevational gradient 	Harm Barten
12h15		<ul style="list-style-type: none"> Oviposition, seasonality, and impact of the seed-feeding weevil <i>Smicronyx lutulentus</i> on the invasive weed <i>Parthenium hysterophorus</i> in South Africa 	Roy Caister
12h30		<ul style="list-style-type: none"> Identifying essential gut symbionts associated with the two-spotted stink bug 	Arista Fourie
12h45		Questions & Answers	
13h00	Lunch & Poster Viewing	Online Oral-Poster Speed Sessions (refer page 8)	
14h00	Biologic Control	<ul style="list-style-type: none"> The intricate community associated with <i>Leptocybe invasa</i> (Hymenoptera: Eulophidae): The South Africa community as a case study 	Caitlin Gevers
14h15		<ul style="list-style-type: none"> Inundative release techniques: how mass releasing a biocontrol agent led to the reduction of water hyacinth on Hartbeespoort Dam 	Benjamin Miller
14h30		<ul style="list-style-type: none"> New association of South African <i>Bagous longulus</i> Gyllenhal (Coleoptera: Curculionidae) with alien invasive <i>Nymphaea mexicana</i> Zuccarini (Nymphaeaceae) 	Megan Reid
14h45		<ul style="list-style-type: none"> The current state of the biological control of <i>Phoracantha semipunctata</i> and <i>P.recurva</i> in South Africa 	Michelle Schröder
15h00		Questions & Answers	
15h15	Mid-afternoon refreshments/Industry networking		

- Live Presentation
- Virtual Presentation

Time	Theme	Title	Speaker
15h30	Biologic Control	<ul style="list-style-type: none"> Best of both worlds: The thermal tolerance of <i>Hydrellia egeriae</i>, a biological control agent for Brazilian waterweed 	Rosali Smith
15h45		<ul style="list-style-type: none"> Anthropogenic disturbance reduces the prevalence and abundance of specialist, but not generalist, grass-associated insects across South Africa: implications for biological control 	Guy Sutton
16h00		<ul style="list-style-type: none"> Initial assessment of the polyphagous shot hole borer (PSHB) in indigenous Afrotemperate forests of the Southern Cape 	Garyn Townsend
16h15		<ul style="list-style-type: none"> The host specificity of <i>Phenrica guérini</i> Bechyne (Coleoptera: Chrysomelidae), a biological control agent of <i>Pereskia aculeata</i> Miller (Cactaceae) 	Elizabeth van der Merwe
16h30		<ul style="list-style-type: none"> Prioritization of potential biological control agents for <i>Robinia pseudoacacia</i> 	Abigail Wolmarans
16h45		<ul style="list-style-type: none"> Will a sublethal dose of Glyphosate herbicide in combination with the biocontrol agent, <i>Megamelus scutellaris</i> (Berg.) (Hemiptera: Delphacidae) enhance control of water hyacinth, <i>Pontederia crassipes</i> (Mart) Solms (Pontedericeae) in South Africa? 	Siyasanga Mnciva
17h00		<ul style="list-style-type: none"> A genetic investigation of the native stem-galling <i>Tetramesa</i> Walker (Hymenoptera: Eurytomidae) in South Africa, and their potential use as biological control agents 	Clarke van Steenderen
17h15		Questions & Answers	
17h30	Close of Congress		
19h00	Official Congress Dinner – Under the African Sky (dress business formal/traditional)		Baobab Courtyard

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- Live Presentation
- Virtual Presentation



ONLINE POSTER SPEED SESSIONS

TUESDAY 29 JUNE 2021

Time	Theme	Title	Speaker
13h10	Integrated Pest Management	<ul style="list-style-type: none"> A detection assay for identifying alternative hosts of the two-spotted stinkbug 	Arista Fourie
13h14		<ul style="list-style-type: none"> Population Genetics of <i>Busseola fusca</i> (Lepidoptera: Noctuidae) in South Africa 	Pfano Mbedzi
13h18		<ul style="list-style-type: none"> Evaluation of three commercial pheromone lures for monitoring male moths of the fall armyworm, <i>Spodoptera frugiperda</i> Smith (Lepidoptera: Noctuidae) 	Hiresh Ramanand
13h22		<ul style="list-style-type: none"> Diversity of southern African <i>psylloids</i> in citrus 	Evans Mauda
13h25	Lunch Break – next session starts at 14h00		

WEDNESDAY 30 JUNE 2021

Time	Theme	Title	Speaker
13h10	Soil Biology	<ul style="list-style-type: none"> Belowground success: Collembola as indicators of restoration progress following active and passive restoration success along the Berg river 	Marizanne Visagie
13h14		<ul style="list-style-type: none"> To Sheep or not to Sheep 	Amandrie Louw
13h18		<ul style="list-style-type: none"> Spring into action 	Abdul Jacobs
13h22	Insect Conservation	<ul style="list-style-type: none"> Drivers of ant diversity and assemblage composition in natural forests and monoculture tree plantations of the Natal Midlands in KwaZulu-Natal 	Thembekile Mthimunye
13h26		<ul style="list-style-type: none"> Temporal patterns in hoverfly abundance in KwaZulu Natal, South Africa 	Luhlumelo Mva
13h30		<ul style="list-style-type: none"> The value of Mopane worms: Quantifying ecosystem services in terms of nutrient and carbon cycling in semi-arid regions of Limpopo 	Mutali Netshanzhe
13h34	Invasion Biology	<ul style="list-style-type: none"> Predicting establishment success of <i>Drosophila suzukii</i> in the South African region 	Nitin Kanle Satishchandra
13h38	Systematics	<ul style="list-style-type: none"> Integrative taxonomy and biogeography of ants in the genus <i>Anoplolepis</i> (Hymenoptera; Formicidae) in Southern Africa 	Abusisiwe Ndaba
13h42	Lunch Break – next session starts at 14h00		

THURSDAY 1 JULY 2021

Time	Theme	Title	Speaker
13h10	Biological Control	<ul style="list-style-type: none"> Tracing the distribution of natural enemies of non-native invasive Eucalyptus insect pests in sub-Saharan Africa 	Mesfin Gossa
13h14		<ul style="list-style-type: none"> Mass-rearing and releases of <i>Neolema abbreviata</i>, the first biological control agent on the invasive weed <i>Tradescantia fluminensis</i> in South Africa 	Milly Gareeb
13h18	Lunch Break – next session starts at 14h00		