



9th International Congress of Dipterology

Programme

25–30 November 2018
Windhoek
Namibia

Organising Committee:

Ashley H. Kirk-Spriggs (Chair)
Burgert S. Muller
Mary K. Kirk-Spriggs
Gillian Maggs-Kölling
Kenneth Uiseb
Seth Eiseb
Michael Osae
Sunday Ekesi
Candice-Lee Lyons

Compiled by:

Ashley H. Kirk-Spriggs
Burgert S. Muller

Front cover image: Tray of micro-pinned flies from the Democratic Republic of Congo (photograph © K. Pannecoucke).

Cover design: Craig Barlow (previously National Museum, Bloemfontein).

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Namibian Ministry of
Environment and Tourism



NAMIBIA



SCIENTIFIC SOCIETY
WISSENSCHAFTLICHE GESELLSCHAFT

9th International Congress of Dipterology

**25–30 November 2018
Windhoek, Namibia**

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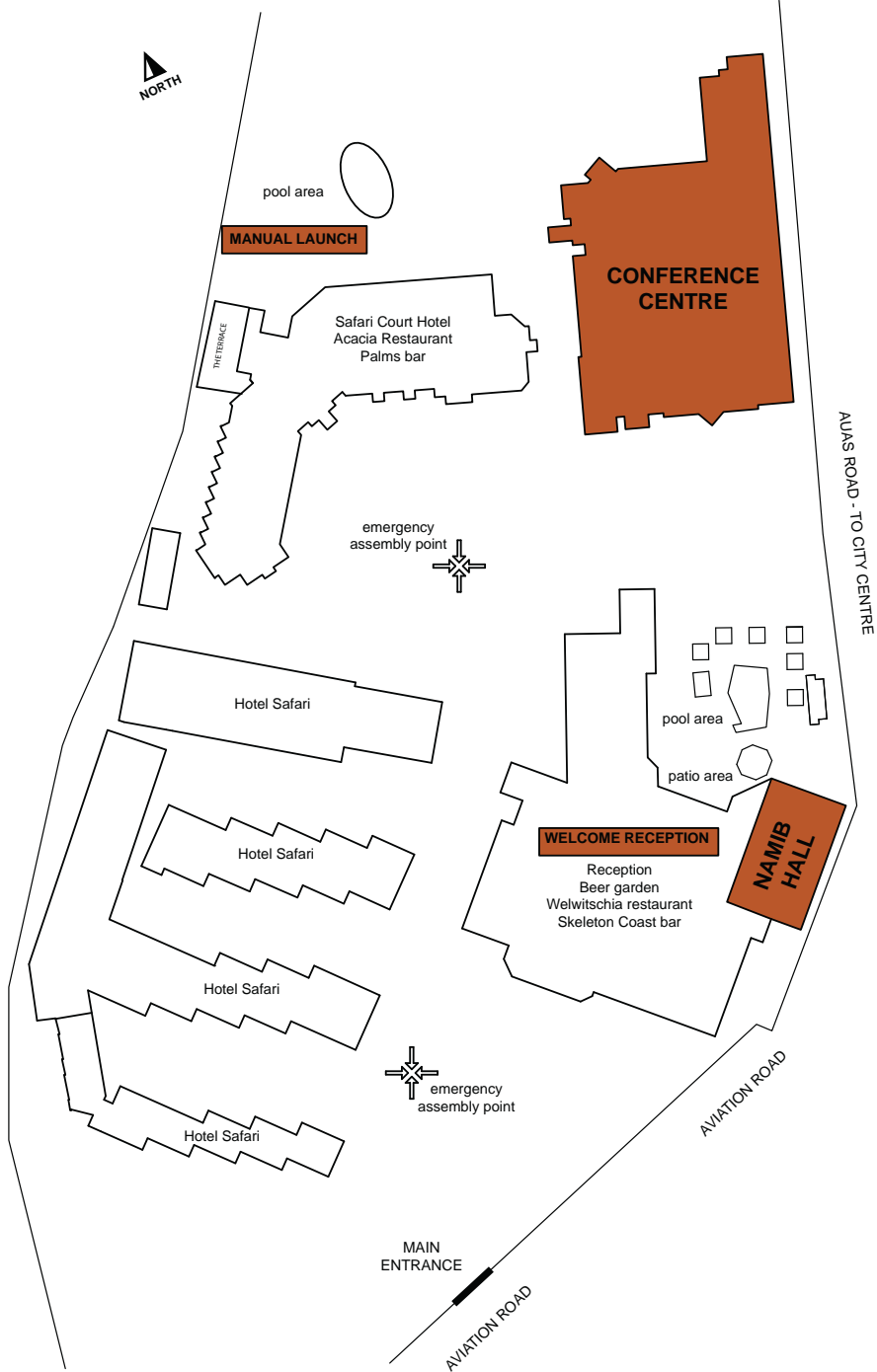
ICD Council

Thomas Pape (Chair), Rudolf Meier (Vice-Chair),
Ashley H. Kirk-Spriggs (Secretary/Treasurer), Daniel J. Bickel, Stephen D. Gaimari,
Valery Korneyev, Carlos José Einicker Lamas, Ángeles Marcos-García,
Kazuhiro Masunaga, Erica McAlister, James E. O'Hara, Adrian R. Plant,
Marc Pollet, Shaun Winterton and Manuel A. Zumbado.

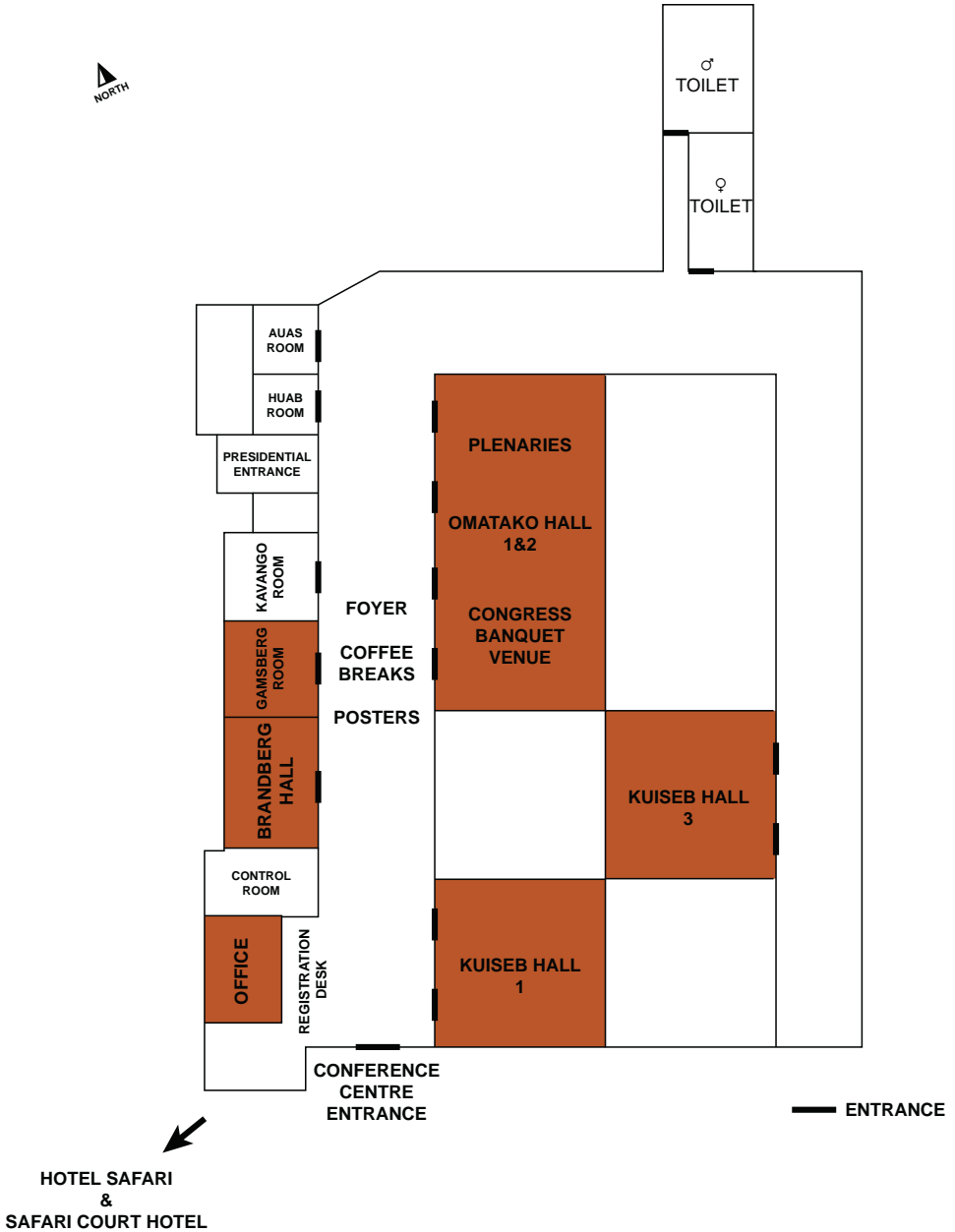
ICD Honorary Members

Neal L. Evenhuis, Fan Zi-de, Nina P. Krivosheina, Emilia P. Nartshuk, Adrian C. Pont,
F. Christian Thompson and D. Montgomery Wood.

Safari Hotels and Conference Centre – site plan



Safari Hotels and Conference Centre – floor plan



10:00 Registration opens – please register at Conference Centre before attending the Welcome reception.

18:30 Welcome reception – Namib Hall, Safari Hotel.

Monday 26 November 2018 – morning

Omatako Hall (1 & 2)

Kuiseb Hall (1)

08:30	Opening ceremony	
09:00	Plenary talk: Unmitigated galls – specialisation leads to diversification in the Cecidomyiidae. <i>Netta Dorchin</i>	
	Tephritoidea – applied research and taxonomy Convenors: Minette Karsten, Olivia Reynolds & Marc De Meyer	Forensic dipterology Convenors: Martin Villet & Kirstin Williams
09:45	Keynote: An overview of some fruit fly (Tephritidae) control activities in Africa over the past decades – success, limitations and future prospects. <i>Maulid W. Mwatawala</i>	A forensic entomological analysis can yield an estimate of post-mortem interval and not just minimum post-mortem interval – many practitioners have done it. <i>Jeffrey D. Wells</i>
10:00	Keynote continued.	Effect of temperature on development of two forensically relevant species of <i>Fannia</i> Robineau-Desvoidy (Fanniidae). <i>Andrzej Grzywacz et al.</i>
10:15	Seasonal abundance of fruit flies (Tephritidae) on mango orchard and its relation with biotic and abiotic factors in Manica Province, Mozambique. <i>Luis Domingos Bota et al.</i>	Toward morphological identification of third-instar larvae of forensically important blowflies (Calliphoridae) of Africa. <i>Krzysztof Szpila et al.</i>
10:30	Coffee break foyer area (30 minutes).	
11:00	Influence of abiotic factors on occurrence and seasonality of fruit flies (Tephritidae) attacking cucurbits in three localities of Cameroon. <i>Mokam Didi Gaëlle & Djiéto-Lordon Champlain</i>	Decomposition and fly-borne <i>Ignatzschineria indica</i> bacteria. <i>Dorothy C. Madamba</i>
11:15	Positioning the displacement of major mango and citrus fruit flies (Tephritidae) by <i>Bactrocera dorsalis</i> (Hendel) since its introduction in Nigeria. <i>Vincent Umeh et al.</i>	More than meets the eye – forensic analysis of insect stains from persons suffering from delusional insect parasitosis. <i>Mark Benecke</i>
11:30	Assessment of the efficiency of local protein-rich products for mass rearing of <i>Bactrocera dorsalis</i> (Hendel) (Tephritidae) and the parasitoid <i>Fopius arisanus</i> (Sonan) (Braconidae). <i>Florence M. Anato et al.</i>	Current entomotoxicology research in the Western Cape, South Africa. <i>Marise Heyns</i>
11:45	Basic biology and host use patterns of stalk-eyed fruit flies (Tephritidae: Trypetinae) breeding in <i>Rubus</i> (Rosaceae). <i>Ning Huangfu et al. (S)</i>	Current research and utility of forensic entomology in the Western Cape, South Africa. <i>Marise Heyns & Devin Finaughty</i>
12:00	Fruit flies (Tephritidae: Tephritinae) from Palmas, Paraná, Brazil – new records of flies and their host-plants. <i>Adriana C. Pereira et al.</i>	Seasonal and spatial distribution of forensically important blowflies in Makhanda, Eastern Cape, South Africa. <i>Kirstin A. Williams & Martin H. Villet</i>
12:15	Current distribution of <i>Bactrocera latifrons</i> (Hendel) (Tephritidae) in different agro-ecological zones of Burundi. <i>Liévin Ndayizeye & Benoît Nzigidahera</i>	Diptera occurring on pig carcasses in two different habitats within close range in Thuringia, Germany. <i>Senta Niederegger et al.</i>
12:30	Lunch Safari Hotel (60 minutes).	



Monday 26 November 2018 – morning

Kuseb Hall (3)	Brandberg Hall	
		08:30
		09:00
Ecology and behaviour of biting flies Convenors: Daniel L. Kline & Jerome Hogsette	Systematics and taxonomy of lower Cyclorrhapha Convenor: Andrew D. Young	
Keynote: Trapping and phenology of Tabanidae on a farm in the South of France. <i>Gérard Duvallet et al.</i>	Keynote: The after party – where you can take all those fresh new species once they're described. <i>Emily A. Hartop et al. (S)</i>	09:45
Keynote continued.	Keynote continued.	10:00
Species composition of potential epizootic hemorrhagic disease vector species in North Illinois, U.S.A. <i>Miguel Ángel Miranda et al.</i>	The first Opetiidae (Platypezoidea) known from the Southern Hemisphere from Valdivian Forest, Chile. <i>Dalton de Souza Amorim et al.</i>	10:15
		10:30
Bioecology of three main <i>Culicoides</i> Latreille species (Ceratopogonidae), vectors of equine and ruminant virus in Senegal. <i>Mame Thierno Bakhoum et al.</i>	New phylogenetic perspectives on Platypezoidea and early lineages of Phoridae based on morphological evidence and dense taxon sampling. <i>John M. Hash & Brian V. Brown</i>	11:00
Temperature dependent lifespan and emergence traits of <i>Culicoides</i> Latreille species (Ceratopogonidae) under laboratory conditions. <i>Carlos Barceló et al. (S)</i>	Ultraconserved elements for a phylogeny of the Phoridae. <i>Katherine Noble et al. (S)</i>	11:15
A surveillance strategy to measure population dynamics of biting Diptera at a horse boarding facility and wildlife refuge in Florida, U.S.A. <i>Daniel L. Kline</i>	Molecular phylogeny of the subfamily Platypezinae (Platypezidae). <i>Gunilla Ståhls</i>	11:30
A preliminary study into the correlations between vegetation type and climate conditions with <i>tsetse</i> (Glossinidae) distribution and abundance in South Africa. <i>Chantel J. de Beer & Gert J. Venter</i>	Taxonomic revision and phylogenetic analysis of <i>Elmohardya</i> Rafael (Pipunculidae), with descriptions of several new species. <i>Dayse Willkenia A. Marques et al. (S)</i>	11:45
Filth fly (Muscidae) research in southern New Mexico – past, present and future contributions. <i>Brandon G. Smythe</i>	An unexplored treasure – a revision of Australian <i>Tomosvaryella</i> Aczél (Pipunculidae). <i>Jeffrey H. Skevington & Mihaly Földvári</i>	12:00
Herbivore dung-derived odours as bait for the stable fly <i>Stomoxys calcitrans</i> L. (Muscidae). <i>Bernard Steve Soh Baleba et al. (S)</i>	Composition of the flower flies fauna (Syrphidae) of Andean ecosystems of north-western Colombia. <i>Augusto L. Montoya & Marta Wolff (S)</i>	12:15
Lunch Safari Hotel (60 minutes).		12:30

Omatako Hall (1 & 2)

Kuiseb Hall (1)

	Tephritoidea – applied research and taxonomy (continued)	Forensic dipterology (continued)
13:30	<i>Manual of the South American Diptera</i> – family Pyrgotidae. <i>Ramon Luciano Mello & Alessandre Pereira-Colavite</i>	Are flies fussy? Comparing fly assemblages attracted to dead pigs and humans. <i>Blake M. Dawson et al. (S)</i>
13:45	The case of <i>Osa Paramonov</i> (Tephritoidea: Pyrgotidae). <i>Valery A. Korneyev</i>	Abundance of forensically related flies from greater Johannesburg, South Africa. <i>Allison E. Gilbert et al. (S)</i>
14:00	Biogeographical histories and evolutionary relationships among Australian Dacini fruit flies (Tephritidae). <i>Melissa Starkie (S)</i>	
14:15	Phylogeny of the tribe Adramini (Tephritidae) – new insight from combined analysis of morphological and molecular evidence. <i>Xiao-lin Chen et al.</i>	
14:30	The <i>Anastrepha</i> Farm Bill project – development of more rapid and reliable diagnostic tools for all life stages of <i>Anastrepha</i> Schiner (Tephritidae). <i>Allen L. Norrbom et al.</i>	
14:45	Improving the current state of fruit fly (Tephritidae) larval taxonomy. <i>Gary J. Steck et al.</i>	
15:00	Coffee break foyer area (30 minutes).	
15:30	A new diagnostic technique for the economically important fruit flies, <i>Bactrocera correcta</i> (Bezzi) and <i>Zeugodacus cucurbitae</i> (Coquillett) (Tephritidae) to benefit international trade. <i>Yuvarin Boontop et al.</i>	Vectors of human disease, biology and environment Convenor: Shüné Oliver Keynote: The old and the new – African Anophelinae and malaria transmission. <i>Maureen Coetzee et al.</i>
15:45	The identification of hymenopteran parasitoids of fruit flies (Tephritidae) and their specific host relationships using a next generation taxonomy approach. <i>Julien M. Haran et al.</i>	Keynote continued.
16:00	An identification system using DNA sequences and image methods for fruit flies of economic importance (Tephritidae). <i>Jiang-ning Wang et al.</i>	Elevated atmospheric CO ₂ promoted speciation in mosquitoes (Culicidae). <i>Chufei Tang et al. (S)</i>
16:15	The bacterium <i>Wolbachia</i> and the Mediterranean fruit fly (Tephritidae) – a multidimensional symbiosis. <i>Nikos T. Papadopoulos & George Kyritsis</i>	Bringing the dead alive – high throughput sequencing of the Natural History Museum, London collection of mosquitoes. <i>Erica McAlister et al.</i>
16:30	Discussion session.	Pathogen detection in bat flies (Hippoboscidae: Nycteribiinae) and their potential utilisation in host conservation. <i>Tamara Szentiványi et al. (S)</i>
16:45		What dirty water means to mosquitoes – the effect of common water pollutants on the life history of the major malaria vector <i>Anopheles arabiensis</i> Patton (Culicidae). <i>Shüné V. Oliver et al.</i>
17:00		Discussion session.



Kuiseb Hall (3)

Brandberg Hall

Ecology and behaviour of biting flies (continued)	Systematics and taxonomy of lower <i>Cyclorrhapha</i> (continued)	
The Knight Stick sticky stable fly trap. <i>Jerome A. Hogsette</i>	Mimicry in the subtribe Criorhinina (Syrphidae: Eristalinae). <i>Kevin M. Moran & Jeffrey H. Skevington (S)</i>	13:30
Discussion session.	Revision of Australian <i>Psilota</i> Meigen (Syrphidae). <i>Andrew D. Young et al.</i>	13:45
	Discussion session.	14:00
		14:15
		14:30
		14:45
Coffee break foyer area (30 minutes).		15:00
Systematics and ecology of <i>Bibionomorpha</i> Convenors: Jostein Kjærandsen, Chris Borkent & Sarah Oliveira		15:30
Living at the end of the world – remarkable fungus gnats (Mycetophilidae) of Chukotka. <i>Alexei Polevoi</i>		15:30
Effect of temperature on development and reproduction of <i>Bradysia</i> sp. and <i>Bradysia impatiens</i> (Johannsen) (Sciaridae). <i>Yuki Ishihara & Yohsuke Tagami</i>		15:45
Multigene-phylogeny of the rapidly diversified Palaeogene tribe Exechiini Winnertz (Mycetophilidae). <i>Jon Peder Lindemann et al. (S)</i>		16:00
Molecular phylogeny of East Asian <i>Daphnephila</i> Kieffer (Cecidomyiidae). <i>Sheng-Feng Lin & Man-Miao Yang (S)</i>		16:15
Building the DNA barcode library of Nordic Sciaroidea – goals achieved, limitations and prospects for an operating Holarctic library on BOLD. <i>Jostein Kjærandsen</i>		16:30
Discussion session.		16:45
		17:00

Omatako Hall (1 & 2)

Kuiseb Hall (1)

08:30	<p>Plenary talk: The research-casework continuum in forensic dipterology. <i>Martin J.R. Hall</i></p>	
	<p>Advances in Neotropical dipterology Convenors: Leonardo Gil-Azevedo & Leonardo Silvestre Rocha</p>	<p>Systematics and ecology of Empidoidea Convenors: Bradley J. Sinclair & Jeffrey M. Cumming</p>
09:15	<p>Composition of Diptera communities associated with macrofungi in Colombia. <i>Marta Wolff & Carolina Henao Sepúlveda</i></p>	<p>Keynote: Progress in the systematics of Empidoidea and why it matters. <i>Emma Wahlberg (S)</i></p>
09:30	<p>Diversity of fungus gnats (Mycetophilidae) in Páramos ecosystems of Colombia. <i>Carolina Henao Sepúlveda et al. (S)</i></p>	<p>Keynote continued.</p>
09:45	<p>An update of diversity of soldier flies (Stratiomyidae) from Colombia and notes on distribution in Colombian biogeographical provinces. <i>Juliana Torres Toro et al. (S)</i></p>	<p>The stem-mining dolichopodid genus <i>Thrypticus</i> Gerstaecker – insect friend or foe? <i>Daniel J. Bickel</i></p>
10:00	<p><i>Manual of South American Diptera</i> – family Ctenostylidae. <i>Ramon Luciano Mello et al.</i></p>	<p>Species diversity of Dolichopodidae unravels the partition of Oriental and Palaearctic Regions in Tibet. <i>Chufei Tang & Ding Yang (S)</i></p>
10:15	<p>A remarkable new muscid genus (Coenosini) from Colombian Páramos, with phylogenetic position inference. <i>João M. Fogaça et al. (S)</i></p>	<p>Does citizen science contribute to the study of lesser-known species-groups? – the case of volunteers and dolichopodid flies in Flanders (Belgium) (Dolichopodidae). <i>Marc Pollet & Dirk Maes</i></p>
10:30	Coffee break foyer area (30 minutes).	
11:00	<p>Review and phylogeny of <i>Dolichophaonia</i> Carvalho (Muscidae) – is it a monophyletic group? <i>Lucas R.P. Gomes & Claudio J.B. de Carvalho (S)</i></p>	<p>Taxonomic study of rocky shore flies of the genus <i>Cemocar</i> Meuffels & Grootaert (Dolichopodidae) from South Africa. <i>Kazuhiro Masunaga</i></p>
11:15	<p><i>Pseudopomyza</i> (Pseudopomyzidae) versus the Limosininae (Sphaeroceridae) – parallel systematics studies and insights into acaulyptrate diversity. <i>Tiffany Yau & Stephen A. Marshall (S)</i></p>	<p>Phylogenetic complexity, increased diversity and ranking in the Parathalassinae (Empidoidea: Dolichopodidae <i>sensu lato</i>). <i>Jeffrey M. Cumming & Scott E. Brooks</i></p>
11:30	<p>Phylogeny of <i>Ischnotoma</i> (<i>Icriomastax</i> Enderlein) (Tipulidae). <i>Jéssica Gouvêa Ferreira & Leonardo H. Gil-Azevedo (S)</i></p>	<p>The comparative analysis of the fauna of empidooids (Atelestidae, Brachystomatidae, Empididae, Hybotidae) of Crimea and Western Caucasus. <i>Semen Kustov & Yulia Kustova</i></p>
11:45	<p>Towards a revision of the New World genus <i>Meromacrus</i> Rondani (Syrphidae). <i>Antonio Ricarte et al.</i></p>	<p>Phylogeny and biogeographical discussion of <i>Wiedemannia</i> Zetterstedt (Empididae: Clinocerinae) with a revision of subgeneric concepts. <i>Marija Ivković et al.</i></p>
12:00	<p>Biodiversity and systematics of leaf-miner flies (Agromyzidae) in Costa Rican cloud forests. <i>Stéphanie Boucher (S)</i></p>	<p>Integrative study of Iberian flightless ant flies (Hybotidae: Tachydromiini) unveils an overlooked diversity. <i>Ana Gonçalves et al. (S)</i></p>
12:15	<p>Seasonality of Diptera families throughout the year in the Campos de Palmas Wildlife Refuge, Paraná, Brazil. <i>Adriana C. Pereira et al.</i></p>	<p>Revision of the Southern African endemic genus <i>Stuckenbergomysia</i> Smith (Empidoidea: Hybotidae). <i>Bradley J. Sinclair</i></p>
12:30	Lunch Safari Hotel (60 minutes).	

Kuiseb Hall (3)

Brandberg Hall

		08:30
Developments in acalyprate dipterology Convenors: John W. Ismay, Barbara Ismay & Stephen D. Gaimari		
Keynote: Why is the Chloropidae fauna of New Guinea so diverse and high in endemics? <i>John W. Ismay</i>		09:15
Keynote continued.		09:30
Phylogenetic relationships of the subfamily Chloropinae (Chloropidae) worldwide. <i>Paula Raile Riccardi & Dalton de Souza Amorim</i>		09:45
<i>Pseudeurina</i> de Meijere (Chloropidae) from Australia, New Guinea and the Neotropics. <i>Barbara Ismay et al.</i>		10:00
A first phylogenetic analysis of the subfamily Oscinellinae (Chloropidae). <i>Zeinab Bazayar & Dalton de Souza Amorim (S)</i>		10:15
Coffee break foyer area (30 minutes).		10:30
A taxonomic study of <i>Odinia</i> Robineau-Desvoidy (Odiniidae), with the description of eleven new species from Brazil. <i>Francisco Limeira-de-Oliveira et al.</i>		11:00
First insights in Odiniidae phylogeny. <i>Heloisa F. Flores et al. (S)</i>		11:15
Expeditions of Russian zoologists to Central Africa (1912–1914) and resulting Diopsidae collections in the Zoological Institute, St. Petersburg, Russia. <i>Emilia P. Nartshuk</i>		11:30
Modifications in the skeleton and musculature of the male abdomen and terminalia in Psilidae and implications for phylogeny. <i>Olga G. Ovtshinnikova et al.</i>		11:45
Stalk-eyed flies (Diopsidae) of Vietnam. <i>Emilia P. Nartshuk</i>		12:00
Recent findings in the Iranian Drosophilidae fauna, with discovery of two new species of <i>Gitona</i> Meigen. <i>Mehrdad Parchami-Araghi et al.</i>		12:15
Lunch Safari Hotel (60 minutes).		12:30

Omatako Hall (1 & 2)

Kuiseb Hall (1)

	Advances in Neotropical dipterology (continued)	Diptera interactions with amphibians Convenors: Gunnar Mikalsen Kvitte & Ximena Bernal
13:30	Spatial and temporal dynamics of Calliphoridae (Calypttratae) in an urban perturbation gradient in a locality of northern Venezuela. <i>Arianna Thomas-Cabianca et al. (S)</i>	Keynote: Coevolution of Diptera with anuran amphibians – an overview. <i>Gunnar Mikalsen Kvitte</i>
13:45	Occupancy models to assess Syrphidae as bioindicators in Colombian Andes ecosystems – an alternative tool. <i>Augusto L. Montoya et al. (S)</i>	Palaeobiology of frog-biting midges (Corethrellidae) – state of the art and future directions. <i>Viktor Baranov & Gunnar Mikalsen Kvitte</i>
14:00	A major step back for Neotropical dipterology – the impact of the fire at the National Museum, Brazil. <i>Leonardo H. Gil-Azevedo et al.</i>	Empodia of <i>Corethrella</i> Coquillett (Corethrellidae) and their value for the taxonomy of the family. <i>André Amaral & Luiz C. Pinho (S)</i>
14:15	Is it a match? What are the evolutionary relationships between ant-decapitating flies (Phoridae) and their hosts? <i>Thalles Platiny Lavinsky Pereira et al. (S)</i>	Flying under the radar – a look at moth midges (Psychodidae) that bite frogs in obscurity. <i>Gregory R. Curler</i>
14:30	Discussion session.	Molecular identification of an obligate parasite of amphibians – <i>Lucilia bufonivora</i> (Moniez) (Calliphoridae). <i>Gerardo Arias-Robledo et al. (S)</i>
14:45	Discussion session.	Host choice and acoustic preferences of frog-biting midges (Corethrellidae) in lowland Pacific Costa Rica. <i>Jonas Virgo et al. (S)</i>
15:00	Coffee break foyer area (30 minutes).	
15:30		Mosquito/anuran interactions and feeding patterns of frog-biting mosquitoes (Culicidae) in Sri Lanka. <i>Priyanka de Silva et al.</i>
15:45		Studying the sensory ecology of frog-biting midges (Corethrellidae) and their frog hosts using ecological interaction networks. <i>T. Ulmar Grafe et al.</i>
16:00		A review of the sensory challenges confronted by flies that feed on anuran blood. <i>Ximena E. Bernal</i>
16:15		Discussion session.
18:30	Public lecture: How flies and other insects help us to understand and solve crimes. <i>Mark Benecke</i>	
19:30	Happy Hour (Skeleton Coast/Palms Bars).	



Kuiseb Hall (3)

Brandberg Hall

Developments in acalyptrate dipterology (continued)	Taxonomy and phylogeny of Asilidae – honouring 40 years of Afrotropical research by Jason Londt Convenor: Torsten Dikow	
Is the tribe Cladochaetini the largest New World radiation of Drosophilidae? <i>Gabriela Pirani et al. (S)</i>	Keynote: Honouring Jason G.H. Londt – Afrotropical Asilidae, the KwaZulu-Natal Museum and a career dedicated to discovering and describing new species. <i>John M. Midgley & Torsten Dikow</i>	13:30
The family Celyphidae in the New World and remarks on the world genera. <i>Stephen D. Gaimari</i>	Keynote continued.	13:45
The natural history, diversity and relationships of fern flies in the genus <i>Auster</i> McAlpine & Keyser (Teratomyzidae) <i>et alia</i> in Australia. <i>Keith M. Bayless</i>	A revision of <i>Aphestia</i> Schiner (Asilidae: Laphriinae) with the description of nine new species. <i>Alexssandro Camargo da Silveira & Rodrigo Vieira (S)</i>	14:00
A review of the genus <i>Sepedoninus</i> Verbeke (Sciomyzidae) with the description of <i>S. madagascariensis</i> sp. n. from Madagascar. <i>Jean-Claude Vala</i>	Molecular phylogeny of the subfamily Asilinae (Asilidae) based on mitochondrial 16S and 12S rDNA and nuclear 18S rDNA. <i>Tatiana V. Galinskaya et al.</i>	14:15
A review of the Oriental-Australian stilt-legged flies (Micropezidae) in the subfamily Eurybatinae. <i>Nur Athiqah Md Yusof & Stephen A. Marshall (S)</i>	Taxonomy and distribution of <i>Proctacanthus</i> Macquart (Asilidae) and related genera of robber flies in North America. <i>C. Riley Nelson</i>	14:30
Discussion session.	A review of Nearctic <i>Saropogon</i> Loew (Asilidae: Dasyopogoninae), with the description of a new species from Arizona, U.S.A. <i>Charlotte H.E. Alberts & Eric M. Fisher (S)</i>	14:45
Coffee break foyer area (30 minutes).		15:00
	Towards an improved classification of robber flies (Asilidae) using ultraconserved elements. <i>Chris Cohen et al. (S)</i>	15:30
	The online Afrotropical Asilidae Portal. <i>Torsten Dikow</i>	15:45
	Discussion session.	16:00
		16:15
		18:30
		19:30

Omatako Hall (1 & 2)

Kuiseb Hall (1)

08:30	Plenary talk: Resolving the fly tree of life. <i>Michelle Trautwein</i>	
	Advances in Diptera phylogenomics Convenors: Jessica P. Gillung & Keith M. Bayless	Biodiversity surveys and conservation of Diptera Convenor: Marc Pollet
09:15	Keynote: Phylogenomic strategies to resolve major fly radiations – characters, complexity and the new data-rich paradigm. <i>Brian M. Wiegmann</i>	Keynote: Reconnaissance, results and rewards – the balance between dipteran surveys for research, whilst providing education and outreach. <i>Erica McAlister & Beulah Garner</i>
09:30	Keynote continued.	The state of Nearctic Tachinidae taxonomy as revealed by a single Malaise trap, the Canadian National Collection of Insects and DNA barcoding. <i>James O'Hara</i>
09:45	Mecoptera, molecules and morphology – phylogenomic perspective on the origin of Diptera. <i>David K. Yeates et al.</i>	Families of Diptera in Palmas highland grasslands of Brazil and the importance of comprehensive studies. <i>Adriana C. Pereira et al.</i>
10:00	Ultraconserved elements in a Diptera-wide phylogeny. <i>Katherine Noble et al. (S)</i>	Richness and abundance of Anthomyiidae in a conservation unit of Paraná, Brazil. <i>Adriana C. Pereira et al.</i>
10:15	A phylogenomic approach elucidates the early diverging acalyprate lineages of Schizophora. <i>Keith M. Bayless et al.</i>	Immature Diptera and other macroinvertebrates in the habitats of bipolar-distributed <i>Sphagnum</i> species – a comparison of bogs in north-western Russia and southern Chile. <i>Andrey Przhiboro</i>
10:30	Coffee break foyer area (30 minutes).	
11:00	Molecular phylogeny of <i>Allodia Winnertz sensu lato</i> (Mycetophilidae) constructed using genome skimming. <i>Trude Magnussen et al.</i>	Working on familiar ground – when you think you know everything there is to know ... <i>Paul L.Th. Beuk</i>
11:15	Deploying an army of nuclear genes to resolve the phylogeny of Australian soldier flies (Stratiomyidae) and the discovery of more than 150 new species. <i>Bryan D. Lessard et al.</i>	Diptera diversity in deciduous forests of Canton Ticino, southern Switzerland. <i>Lucia Pollini Paltrinieri</i>
11:30	A preliminary phylogeny of Asiloidea using anchored enrichment data (Brachycera). <i>Xuankun Li et al. (S)</i>	Diptera in high latitude Arctic rivers of the Polar Desert Zone. <i>Andrey Przhiboro</i>
11:45	Phylogenetic relationships of spider flies (Acroceridae) – discordance, uncertainty and the perils of phylogenomics. <i>Jessica P. Gillung (S)</i>	Bioassessment of fly family diversity using taxon effort relationships on sites with a continuum of grazing and erosion pressures in Mongolia. <i>C. Riley Nelson et al.</i>
12:00	Phylogenetics of lower Cyclorrhapha using next-gen sequencing and morphological data. <i>Andrew D. Young et al. (S)</i>	How hot is the Mitaraka biodiversity spot in south-western French Guiana for Diptera? <i>Marc Pollet et al.</i>
12:15	Is this the end of Syrphoidea? – Flower flies (Syrphidae) and big-headed flies (Pipunculidae) are not sister-groups. <i>Trevor O. Burt et al.</i>	Discussion session.
12:30	Lunch Safari Hotel (60 minutes).	



Kuiseb Hall (3)

Brandberg Hall

		08:30
<p>Advances in Afrotropical dipterology Convenors: Burgert S. Muller & Ashley H. Kirk-Spriggs</p>	<p>Flies in time – how fossils change our understanding of Diptera evolution Convenor: Vladimir Blagoderov</p>	
<p>In celebration of Roger Ward Crosskey (1930–2017) – a life well spent. <i>Zoe J. Adams & <u>Adrian C. Pont</u></i></p>	<p>Keynote: Fossils – key to Diptera phylogeny. <i>Wiesław Krzemiński</i></p>	09:15
<p>Keynote: What's eating the grape? A review of African frugivorous Tephritidae research over the past 25 years. <i>Marc De Meyer et al.</i></p>	<p>Keynote continued.</p>	09:30
<p>Keynote continued.</p>	<p>More than dead males – looking beyond taxonomy and phylogeny in palaeodipterology. <i>Viktor Baranov</i></p>	09:45
<p>Systematics and taxonomy of <i>Culicoides</i> Latreille (Ceratopogonidae) in the Afrotropical Region – what are the challenges and what comes next? <i>Mame Thierno Bakhom et al.</i></p>	<p>Brachyceran flies in mid-Cretaceous “Burmese amber” – diversity and ecological significance. <i>Qingqing Zhang & Bo Wang (S)</i></p>	10:00
<p>An assessment of Afrotropical craneflies (Tipulidae), with particular focus on the fauna of Cameroon. <i>Pete Boardman</i></p>	<p>Fossils – what do “Burmese amber” Phoridae tell us about evolution in the family? <i>Brian V. Brown & John Hash</i></p>	10:15
<p>Coffee break foyer area (30 minutes).</p>		10:30
<p>The “<i>Atherix</i>” syndrome – an overview of the systematics and taxonomy of Afrotropical Athericidae. <i>Burgert S. Muller & Ashley H. Kirk-Spriggs</i></p>	<p>Time after time – phylogeny of Tanypodinae (Chironomidae) suggests multiple independent loss and reacquisitions of the mandibles by non-biting midges. <i>Fabio Laurindo da Silva & Viktor Baranov</i></p>	11:00
<p>Recent advances in the taxonomy and ecology of the hoverflies (Syrphidae) of the Afrotropical Region. <i>Kurt Jordaens & Marc De Meyer</i></p>	<p>Why not look like a fly? – a case of convergence between the Mecoptera and Diptera. <i>Agnieszka Soszynska-Maj et al.</i></p>	11:15
<p>Micropezidae of Madagascar – new collections and new connections. <i>Stephen A. Marshall</i></p>	<p><i>Palaeoglaesum</i> Wagner (Psychodidae: Bruchomyiinae) – an extinct genus from “Burmese amber”. <i>Kornelia Skibińska et al.</i></p>	11:30
<p>Taxonomy and feeding behaviour of Afrotropical snail-killing flies (Sciomyzidae). <i>Jean-Claude Vala et al.</i></p>	<p>The genus <i>Cheilotrichia</i> Rossi (Limoniidae) from Ukrainian amber inclusions. <i>Katarzyna Kopeć et al.</i></p>	11:45
<p>Biogeographical and allometric aspects of the Diopsidae of Madagascar. <i>Hans R. Feijen et al.</i></p>	<p>Discussion session.</p>	12:00
<p>Afrotropical Conopidae – 200 years of research on a beautiful group of Afrotropical flies. <i>Jens-Hermann Stuke</i></p>		12:15
<p>Lunch Safari Hotel (60 minutes).</p>		12:30

Omatako Hall (1 & 2)

Kuiseb Hall (1)

		Advances in Diptera phylogenomics (continued)
13:30	Advances in Diptera phylogenomics moved to Kuiseb Hall (1). Hall prepared for banquet.	Big data, big challenges – resolving the phylogenetic relationships of the subfamily Syrphinae (Syrphidae) with target DNA enrichment. <i>Trevor O. Burt et al.</i>
13:45		Phylogenomic analysis of Calyptratae – resolving a major radiation of Diptera. <i>Sujatha Narayanan Kutty et al.</i>
14:00		A phylogenomic perspective of the Oestroidea (Calyptratae) using ultraconserved elements and historical museum specimens. <i>Eliana Buenaventura et al.</i>
14:15		Discussion session.
14:30	Group photograph (location to be announced).	
14:45	Poster session (foyer area).	
15:00	Coffee break foyer area (30 minutes).	
15:30	Poster session (foyer area).	
15:45	Poster session (foyer area).	
16:00	Poster session (foyer area).	
16:15	Poster session (foyer area).	
18:30	Congress banquet (Omatako Hall, ticket holders only): after dinner speech: “Africa and me! – a dipterists perspective”. <i>Martin Hauser</i>	



Kuiseb Hall (3)

Brandberg Hall

Advances in Afrotropical dipterology (continued)		
Host associations and distribution of South African bat flies (Hippoboscidae: Nycteribiinae). <i>Tamara Szentiványi et al.</i>		13:30
No more Dodo doo doo – Diptera of the Mascarene Islands. <i>Ashley H. Kirk-Spriggs & Burgert S. Muller</i>		13:45
Succulent plant niches and unexplored insect diversity – the gall midges (Cecidomyiidae) of Aizoaceae in South Africa. <i>Jonathan F. Colville et al.</i>		14:00
Discussion session.		14:15
		14:30
		14:45
Coffee break foyer area (30 minutes).		15:00
		15:30
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		16:00
		16:15
		18:30

Omatako Hall (1 & 2)

Kuiseb Hall (1)

08:30	Plenary talk: Phorid fly diversity – frontiers in species richness, structure and behaviour. <i>Brian V. Brown</i>	
	Calyptrate evolution and diversity Convenors: Pierfilippo Cerretti, Thomas Pape & John O. Stireman III	Too many species, too little time fresh approaches to “open-ended” genera Convenors: Daniel J. Bickel & Emily A. Hartop
09:15	Keynote: Molecular phylogeny and evolution of world Tachinidae. <i>John O. Stireman III et al.</i>	Keynote: Two million species of gall midges – who is surprised? <i>Mathias Jaschhof</i>
09:30	Keynote continued.	Keynote continued.
09:45	Systematics and phylogenetics of Mesembrinellidae (Calypttratae) – current status, perspectives and implications for studying Oestroidea evolution. <i>Marco Antonio Tonus Marinho</i>	How many more? The genus <i>Manota</i> Williston (Mycetophilidae) as an example of open-ended genera. <i>Olavi Kurina & Heikki Hippa</i>
10:00	Shedding the first light on the evolution of the stomach botflies (Oestridae: Gasterophilinae). <i>Liping Yan et al. (S)</i>	Digital reference collections are efficient tools for fostering large-scale collaborative taxonomy – Biodiversity of Singapore as exemplar. <i>Yuchen Ang et al.</i>
10:15	Taxonomy, phylogeny and evolution of <i>Portschinskia</i> Semenov (Oestridae: Hypodermatinae) – a rare genus of bumblebee mimicking botflies. <i>Xin-yu Li et al. (S)</i>	Lumpers, splitters and <i>mih</i> i, oh my! The foibles and fancies of dealing with speciose Diptera genera through history. <i>Neal L. Evenhuis</i>
10:30	Coffee break foyer area (30 minutes).	
11:00	Transcriptomic perspective of Sarcophagidae (Oestroidea) phylogeny. <i>Dong Zhang et al.</i>	Step right up! Joining the OET circus – sheer madness or scientific altruism? <i>Emily A. Hartop (S)</i>
11:15	An anchored hybrid enrichment-based dataset challenges the traditional classification of flesh flies (Sarcophagidae). <i>Eliana Buenaventura et al.</i>	Tackling open-ended taxa – large-scale species discovery and mass phylogenetics of South-east Asian Diptera. <i>Rudolf Meier</i>
11:30	Phylogeny of Miltogramminae (Schizophora: Sarcophagidae) revisited – new evidence from anchored hybrid enrichment (AHE) method. <i>Marcin Piwczyński et al.</i>	11:15 presentation continued.
11:45	Integral integration – a combined morphological and molecular approach delineates cryptic species and evolutionary relationships in Australian Miltogramminae (Sarcophagidae). <i>Nikolas P. Johnston et al. (S)</i>	NGS barcoding accelerates species discovery of “open-ended” taxa in a largely neglected and highly threatened tropical habitat. <i>Darren Yeo et al. (S)</i>
12:00	Application of delimitation methods to determine intra-specific molecular diversity in Miltogramminae (Sarcophagidae). <i>Dominika Wyborska et al. (S)</i>	The reverse-sorting sharp tool – an example of the study of Mycetophilidae from Singapore. <i>Dalton de Souza Amorim et al.</i>
12:15	Italy’s most common flesh fly re-identified – with insights on relationships within <i>Sarcophaga</i> Meigen <i>sensu stricto</i> (Sarcophagidae). <i>Daniel Whitmore et al.</i>	Blockchain technology and other decentralised consensus systems for edge-centric database computing have the potential to vitalise taxonomy. <i>Jostein Kjærandsen</i>
12:30	Lunch Safari Hotel (60 minutes).	



Kuiseb Hall (3)	Brandberg Hall	08:30
<p>The importance of Diptera in plant-pollinator networks Convenor: Kurt Jordaens</p>	<p>Taxonomy and systematics of lower Brachycera Convenor: Bryan D. Lessard</p>	
<p>Keynote: Flies in the eyes of flowers – the beauty of the beast. <i>Bruce Anderson</i></p>	<p>Keynote: Increasing momentum in the phylogenetics and systematics of Tabanomorpha. <i>Keith M. Bayless</i></p>	09:15
<p>Keynote continued.</p>	<p>Keynote continued.</p>	09:30
<p>Matching tubes and tongues – local coevolution or ancient species sorting? <i>Timotheüs van der Niet et al.</i></p>	<p>Phylogenomic and morphological analysis of <i>Tabanus</i> L. (Tabanidae) – Neotropical species-groups divergence times and the identification of monophyletic lineages. <i>Daniel D.D. Carmo et al. (S)</i></p>	09:45
<p>Diversity underestimated? Identifying lineages in the hypervariable keystone pollinator species <i>Prosoeca peringueyi</i> (Lichtwardt) (Nemestrinidae) from the Succulent Karoo biodiversity hotspot. <i>Genevieve L. Theron et al. (S)</i></p>	<p>Taxonomic revision of the Neotropical genus <i>Rhabdotylus</i> Lutz (Tabanidae). <i>Mauren Turcatel</i></p>	10:00
<p>Flowers fuel flies – supply of nectar for long-proboscid flies (<i>Prosoeca</i> sp.: Nemestrinidae). <i>Harald W. Krenn et al.</i></p>	<p>A new species of the wormlion genus <i>Alhajarmyia</i> Stuckenberg (Vermileonidae) – the second wormlion fly described from Kenya. <i>Vaughn R. Swart & Robert S. Copeland</i></p>	10:15
Coffee break foyer area (30 minutes).		
<p>The relevance of short-proboscid pollinators associated with flowers with nectar spur. <i>Ximo Mengual et al.</i></p>	<p>Taxonomic revision of the subgenus <i>Apiocera</i> (<i>Anypenus</i> Philippi) (Apioceridae). <i>Brandon Claridge & Torsten Dikow</i></p>	11:00
<p>Pollinator body size influences stigmatic pollen print, irrespective of the evaluation method used – a meta-analysis. <i>Rita Földesi et al.</i></p>	<p>An overview of Australian Dasypogoninae (Asilidae). <i>Chris Cohen & Michael Brewer (S)</i></p>	11:15
<p>Diptera – drivers of diversification in Stapeliinae (Apocynaceae: Asclepiadoideae). <i>Annemarie Heiduk et al.</i></p>	<p>The role of host phylogeny in shaping the diversity of bee fly (Bombyliidae) microbiomes. <i>Allan Cabrero et al. (S)</i></p>	11:30
<p>Bee flies (Bombyliidae) and not bees, are the keystone pollinators of spring mass flowering displays in Southern African deserts. <i>Allan G. Ellis</i></p>	<p>Morphological phylogeny and biogeography of Bombyliinae (Bombyliidae). <i>Xuankun Li & David K. Yeates (S)</i></p>	11:45
<p>Study of the impact of natural ecosystems degradation on the abundance and diversity of hoverflies (Syrphidae) in Burundi. <i>Eugène Sinzinkayo et al.</i></p>	<p>A phylogeny of Sarginae (Stratiomyidae) – monophyly, new characters, species-rich genera and the problem of Chrysochlorinae/Hermetiinae. <i>Diego A. Fachin et al. (S)</i></p>	12:00
<p>Diversity of Diptera families on wild and cultivated plants in Cameroon. <i>Sidonie Fameni Topé et al.</i></p>	<p>Discussion session.</p>	12:15
Lunch Safari Hotel (60 minutes).		

Omatako Hall (1 & 2)

Kuiseb Hall (1)

	Calyptrate evolution and diversity (continued)	Too many species, too little time fresh approaches to “open-ended” genera (continued)
13:30	Third time lucky? – A comparison of phylogenetic hypotheses, based on multilocus Sanger sequencing and next-generation sequencing, a case of the family Muscidae. <i>Andrzej Grzywacz et al.</i>	Is dirty work useful in taxonomy and systematics? <i>Emma Wahlberg (S)</i>
13:45	Reclustering the cluster flies (Oestroidea: Polleniidae). <i>Pierfilippo Cerretti et al.</i>	Unending diversity – open-ended taxa and the limits of taxonomy. <i>Daniel J. Bickel</i>
14:00	Phylogeny of Rhinophoridae and Polleniidae – toward the evolution of Oestroidea. <i>Silvia Gisondi et al. (S)</i>	Discussion session.
14:15	Preliminary results of a morphological and molecular identification of Afrotropical Rhiniidae (Calyptratae). <i>Arianna Thomas-Cabianca et al. (S)</i>	
14:30	Evolutionary relationships among Australian snail parasite blowflies (Calliphoridae: Ameriniinae). <i>James F. Wallman et al.</i>	
14:45	A Hainanese in the haze – a phylogenetically unplaceable Oriental blowfly. <i>Arn Rytter Jensen et al. (S)</i>	
15:00	Coffee break foyer area (30 minutes).	
15:30	Comparative morphology of the piercing-type ovipositor in the tribe Blondeliini (Tachinidae) and its phylogenetic implications. <i>Takuji Tachi et al.</i>	
15:45	The microtype tachinid, <i>Pales pavid</i> a (Meigen) – new findings on larval behavioural avoidance of host’s immune response. <i>Satoshi Nakamura & Toshiharu Tanaka</i>	
16:00	Tachinidae of the Hengduan Mountains of south-western China. <i>Chuntian Zhang et al.</i>	
16:15	The mystery of “ <i>Eurigaster</i> ” <i>clathrata</i> Nowicki (Tachinidae) exposed. <i>Franz-Rudolf Schnitzler</i>	
16:30	Preliminary results of a comparative morphological study and cladistic analysis of Phasiinae (Tachinidae), based on morphological characters. <i>Rodrigo de Vilhena Perez Dios & Shiguo Nihei (S)</i>	
18:30	Public lecture: “Bye bye birdie – hello Year of the Fly!” <i>Stephen A. Marshall</i>	
19:30	Happy hour (Skeleton Coast/Palms Bars).	



Kuiseb Hall (3)

Brandberg Hall

The importance of Diptera in plant-pollinator networks (continued)		
Insects visiting flowers of Oil palm, <i>Elaeis guineensis</i> Jacquin (Arecales: Arecaceae), in Uganda. <i>James P. Egonyu et al.</i>		13:30
Flies are essential pollinators of Avocado (<i>Persea americana</i> Mill.) in Murang'a County, Kenya. <i>Joseph Mulwa (S)</i>		13:45
Insect pollinators of Cocoa, <i>Theobroma cacao</i> (L.) (Malvaceae) in Cameroon. <i>Nadia Karelle Toukem et al. (S)</i>		14:00
Foraging behaviour of a <i>Calliphora</i> Robineau-Desvoidy sp. (Calliphoridae) on Castor bean flowers in Cameroon. <i>Michelson Azo'o Ela et al.</i>		14:15
A conspectus of research on the role of Diptera in plant-pollination in the Afrotropical Region. <i>Kurt Jordaens</i>		14:30
Discussion session.		14:45
Coffee break foyer area (30 minutes).		15:00
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		18:30
		19:30

Omatako Hall (1 & 2)

Kuiseb Hall (1)

	Systematics and ecology of Culicomorpha Convenors: Leonardo H. Gil-Azevedo & Douglas C. Currie	General dipterology Convenor: Mary K. Kirk-Spriggs
08:30	Keynote: Systematics of the meniscus midges (Dixidae) – molecular phylogenetics of world taxa and highlights from revisionary studies of Nearctic <i>Dixa</i> Meigen. <i>John K. Moulton</i>	Supermassive insect species loss in Germany. <i>Mark Benecke & Martin Sorg</i>
08:45	Keynote continued.	Insect decline in Germany and elsewhere in Europe – a major loss in pollination with case studies on hoverflies (Syrphidae). <i>Axel Ssymank</i>
09:00	Species delimitation in the <i>Ochlerotatus communis</i> (De Geer) complex (Culicidae), a novel mitochondrial DNA (mtDNA) line from Europe. <i>Heli Kirik et al. (S)</i>	The smelly sex lives of blowflies (Calliphoridae). <i>Nathan J. Butterworth et al. (S)</i>
09:15	Phylogenetic analysis of South African <i>Aedes</i> Meigen, <i>Anopheles</i> Meigen and <i>Culex</i> L. (Culicidae) based on COI, ITS2 and ND4 sequences. <i>Liezl Whitehead et al. (S)</i>	Twenty-five years of the study of Diptera of economic and health importance in the Balearic Islands, Spain. <i>Miguel Ángel Miranda et al.</i>
09:30	The “ <i>Lutzia conundrum</i> ” is only skin deep – a framework for resolving Culicini (Culicidae) classification. <i>Louwrens P. Snyman et al.</i>	An old pest with a New World twist – identity issues in the seedcorn maggot complex of <i>Delia</i> Robineau-Desvoidy (Anthomyiidae). <i>Jade Savage</i>
09:45	Taxonomy of <i>Dasyhelea</i> Kieffer (Ceratopogonidae) – an Indian perspective. <i>Shubhranil Brahma & Niladri Hazra</i>	Flies on rock pools – survival and emergence of dipterans from dried soil sediments of temporary wetlands. <i>Musa C. Mlambo et al.</i>
10:00	Systematics of Indian species of <i>Polypedilum</i> Kieffer (Chironomidae). <i>Tuhar Mukherjee & Niladri Hazra</i>	<i>Hydrellia</i> Robineau-Desvoidy (Ephydridae) – the good, the bad and the unknown. <i>Rosali Smith et al. (S)</i>
10:15	A new flightless marine species of Chironomidae – ancestry, adaptations and taxonomic implications. <i>Xiaolong Lin et al.</i>	Diversity and bionomics of Diptera occurring in moving sand on river bottoms in northern European Russia. <i>Andrey Przhiboro</i>
10:30	Coffee break foyer area (30 minutes).	
11:00	A new family and genus of Mesozoic Simulioidae (Culicomorpha). <i>Douglas C. Currie et al.</i>	Why on the snow? Diversity and life strategies of snow active Diptera in central Europe (Poland). <i>Agnieszka Soszynska-Maj</i>
11:15	Prospects for South American Simuliidae studies. <i>Leonardo H. Gil-Azevedo</i>	Opportunistic blood-feeding behaviour of U.K. <i>Culicoides</i> Latreille (Ceratopogonidae) and implications for disease spread in zoo animals. <i>Marion E. England et al.</i>
11:30	Are <i>Simulium</i> (<i>Anasolen</i> Enderlein), <i>S.</i> (<i>Freemanellum</i> Enderlein) and <i>S.</i> (<i>Xenosimulium</i> Crosskey) related to <i>S.</i> (<i>Trichodagmia</i> Enderlein) (Simuliidae)? <i>Óscar Sánchez Molina & Leonardo H. Gil-Azevedo (S)</i>	



Kuiseb Hall (3)

Brandberg Hall

Morphological character systems in Diptera Convenors: Gregory Curler & John Hash	Biodiversity informatics of Diptera Convenors: John M. Midgley & Burgert S. Muller	
Keynote: Seeing flies from different angles – the utility of interactive, 3D models for research and teaching. <i>R. Isai Madriz et al.</i>	Keynote: Diptera biodiversity informatics – moving entomological data forward. <i>John M. Midgley</i>	08:30
Assessment of homologies in male terminalia of lower Diptera and phylogenetic implications for Psychodomorpha. <i>Gregory R. Curler et al.</i>	The KwaZulu-Natal Museum's contributions to the PINDIP project. <i>Tricia Pillay et al.</i>	08:45
Homologisation of sclerites and musculature of male terminalia of Diptera "Aschiza" (Platypezoidea, Syrphoidea) and Schizophora Acalypratae (Nerioidea, Diopsoidea, Tephritoidea, Lauxanioidea) with a phylogenetic perspective. <i>Tatiana V. Galinskaya et al.</i>	A regional collaborative effort in digitising and monitoring African insects. <i>Kudzai Mafuwe et al.</i>	09:00
Musculature of the male abdominal segments and terminalia of Phaoniinae and Muscinae (Muscidae). <i>Olga G. Ovtshinnikova et al.</i>	A pilot study to delimit <i>tsetse</i> target populations in Zimbabwe. <i>Gerald Chikowore et al.</i>	09:15
Is the term surstylus a meme? <i>Tadeusz Zatwarnicki</i>	Shaping our taxonomic legacy – tools to accelerate biodiversity discovery and make data openly accessible. <i>Torsten Dikow</i>	09:30
Segmental origins of genital appendages in lower Diptera – are surstyli present in the groundplan? <i>Gunnar Mikalsen Kvitte</i>	Discovering the diversity and biology of South African nose flies (Rhiniidae) through entomological collections. <i>Arianna Thomas-Cabianca et al. (S)</i>	09:45
3D virtual histology for developmental studies of Diptera – a pilot study of myiasis-causing flies. <i>Martin J.R. Hall et al.</i>	An overview of the horse flies (Tabanidae) of South Africa – centralising and assessment of major collections for spatiotemporal analysis. <i>Louwrens P. Snyman et al.</i>	10:00
Muscle attachment sites in Diptera larvae – computer-assisted imaging and analysis. <i>Senta Niederegger et al.</i>	Potential of specimen digitisation in conservation – a case study of Tabanidae in the National Museums of Kenya. <i>Laban N. Njoroge & Josiah C. Achieng</i>	10:15
Coffee break foyer area (30 minutes).		10:30
Description of a remarkable new species of <i>Neodexiopsis</i> Malloch (Muscidae) from southern Brazil, using ultrastructural morphology and DNA barcoding analysis. <i>Lucas Roberto Pereira Gomes et al. (S)</i>	Diptera collections as data sources for biodiversity and conservation management planning – a South African case study. <i>Burgert S. Muller</i>	11:00
The female terminalia in lower Diptera as a source for characters in phylogenetic studies. <i>Trude Magnussen & Geir Søli</i>	Discussion session.	11:15
Homology of the cubital and anal veins in the Mecoptera and Diptera. <i>Wiesław Krzemiński & Ewa Krzemińska</i>		11:30

Friday 30 November 2018 – afternoon

Omatako Hall (1 & 2)

Kuiseb Hall (3)

	Systematics and ecology of Culicomorph (continued)	Morphological character systems in Diptera (continued)
11:45	A first phylogeny of world Thaumaleidae. <i>Robert J. Pivar et al. (S)</i>	Novel morphological data to decipher character and life-history evolution in Asiloidea and Nemestrinoidea. <i>John M. Hash et al.</i>
12:00	First results of genome and transcriptome sequencing in psammorheophilous Chironomidae. <i>Andrey Przhiboro et al.</i>	Morphology based Diptera phylogeny – taxon sampling, character sampling and analytical challenges. <i>Dalton de Souza Amorim</i>
12:15	Discussion session.	Discussion session.
12:30	Lunch Safari Hotel (60 minutes).	
13:30	Closing ceremony.	
14:30	End of Congress.	
18:30	Happy hour (Skeleton Coast/Palms Bars)	

Social programme

Sunday 25 November 2018	Welcome Reception (cocktails and finger buffet).	18h30	Namib Hall, Hotel Safari.
Monday 26 November 2018	Official launch of the <i>Manual of Afro-tropical Diptera</i> (Braai/BBQ & drinks).	18h30	Pool area, Safari Court Hotel.
Tuesday 27 November 2018	Public lecture by Dr Mark Benecke (light refreshments served).	18h30	Safari Conference Centre (Omatako Hall).
Tuesday 27 November 2018	Happy hour.	19h30	Palms & Skeleton Coast Bars, Safari & Safari Court Hotels.
Wednesday 28 November 2018	Congress Banquet (ticket holders only). "Africa and me! – a dipterists perspective" by Dr Martin Hauser.	18h30	Safari Conference Centre.
Thursday 29 November 2018	Public lecture by Prof. Stephen Marshall (light refreshments served).	18h30	Safari Conference Centre (Omatako Hall).
Thursday 29 November 2018	Happy hour.	19h30	Palms & Skeleton Coast Bars, Safari & Safari Court Hotels.
Friday 30 November 2018	Happy hour.	18h30	Palms & Skeleton Coast Bars, Safari & Safari Court Hotels.



Safari Conference Centre foyer

1	Surveying and screening South African entomopathogenic nematodes for the control of the Mediterranean fruit fly, <i>Ceratitis capitata</i> (Wiedemann) (Tephritidae). <i>Pia Addison et al.</i>	FD
2	Electrophysiological and behavioural responses of Corn silk flies (Ulidiidae) to colour. <i>Sandra A. Allan</i>	FD
3	New species and records of Corethrellidae from Brazil. <i>André Amaral & Luiz C. Pinho</i>	S
4	The invasive gall midge <i>Litchiomyia chinensis</i> Yang & Luo (Cecidomyiidae) on Lychee in Taiwan. <i>Yi-Min Chao et al.</i>	S
5	A provisional checklist of Syrphidae from Kenya, with notes on collections and collectors. <i>Robert S. Copeland & Kurt Jordaens</i>	FD
6	Comparing methods for the assessment of blood meal volume of <i>Culicoides imicola</i> Kieffer (Ceratopogonidae) fed on an <i>in vitro</i> feeding system. <i>Chantel J. de Beer et al.</i>	FD
7	Asilidae and Mydidae of the central Namib Desert at the Gobabeb Research and Training Centre, Namibia. <i>Torsten Dikow</i>	FD
8	Advances in the taxonomy of Neotropical <i>Pholeomyia</i> Bilimek (Milichiidae). <i>Heloísa F. Flores & Dalton de S. Amorim</i>	S
9	Population genetics and morphological variation of eastern European <i>Lucilia sericata</i> (Meigen) (Calliphoridae). <i>Tatiana V. Galinskaya et al.</i>	FD
10	Apical tooth of the third-instar Medfly <i>Ceratitis capitata</i> (Wiedemann) larvae (Tephritidae). <i>Ilya O. Kamayev & Tatiana V. Galinskaya</i>	FD
11	The hidden Neriidae morphology – a new ultrastructural approach on the study of the male terminalia. <i>Lucas Roberto Pereira Gomes et al.</i>	S
12	Preliminary observations of blood-sucking flies in the genus <i>Sycorax</i> Haliday (Psychodidae) and their frog hosts in lowland forests of Borneo. <i>T. Ulmar Grafe et al.</i>	FD
13	Pollinating Diptera from the community perspective. <i>Jiří Hadrava et al.</i>	S
14	Fossil hoverflies (Syrphidae) – possibilities and perspectives. <i>Jiří Hadrava et al.</i>	S
15	The genus <i>Eumerus</i> Meigen (Syrphidae) in Madagascar. <i>Martin Hauser</i>	FD
16	A mitogenomic approach to resolve the phylogeny of Afrotropical hoverflies (Syrphidae). <i>Kurt Jordaens et al.</i>	FD
17	Taxonomic studies of Japanese Limoniinae (Tipulomorpha: Limoniidae). <i>Daichi Kato & Takuji Tachi</i>	S
18	Barcoding dipteran pollinator networks in agroecosystems. <i>Isabel C. Kilian Salas et al.</i>	S
19	Diptera collection of the National Museum, Bloemfontein – a regional and international resource. <i>Mary K. Kirk-Spriggs et al.</i>	FD
20	Bryophytes facilitate outcrossing of <i>Mitella</i> (Saxifragaceae) by functioning as larval food for pollinating fungus gnats (Mycetophilidae). <i>Jostein Kjærandsen et al.</i>	FD

Poster session Wednesday 28 November 2018 – afternoon

21	Advantages of a DNA based approach to freshwater biomonitoring illustrated by Chironomidae. <i>Sujatha Narayanan Kutty et al.</i>	FD
22	Distribution patterns of Philippine endemic Diptera. <i>Socrates D. Letana</i>	S
23	Towards a revision of the Bombyliinae (Bombyliidae) of Australia. <i>Xuankun Li & David K. Yeates</i>	S
24	Review of genera of Sciomyzidae (Acalyptratae) from China, with new records, synonyms and notes on distribution. <i>Zhu Li et al.</i>	FD
25	Revealing odiniid diversity (Odiniidae) with the discovery of thirteen new species of <i>Helgrelia</i> Gaimari from Brazil. <i>Francisco Limeira-de-Oliveira et al.</i>	FD
26	New species and records of <i>Ataenogera</i> Kröber (Therevidae: Phycusinae) from Brazil. <i>Francisco Limeira-de-Oliveira et al.</i>	FD
27	An integrative taxonomic revision of two species-groups of <i>Exechia</i> Winnertz (Mycetophilidae) with a circumpolar distribution. <i>Jon Peder Lindemann et al.</i>	S
28	Insect death metal – taxonomy and phylogeny of the Australian bristle fly genus <i>Rutilia</i> Robineau-Desvoidy (Tachinidae). <i>James Lumbers et al.</i>	S
29	Morphology of male terminalia reveal a new cryptic species of <i>Senopterina</i> Macquart (Platystomatidae) from Brazil. <i>Ramon Luciano Mello & João Paulo Vinicius Rodrigues</i>	FD
30	A taxonomic review of Southern African <i>Stenobasipteron</i> Lichtwardt (Nemestrinidae). <i>Musa C. Mlambo et al.</i>	FD
31	Simple laboratory method for harvesting fertilised eggs of the Black soldier fly, <i>Hermetia illucens</i> (L.) (Stratiomyidae). <i>Satoshi Nakamura</i>	FD
32	Investigating the Diptera fauna beneath snow in areas with heavy snowfall in Japan. <i>Takeyuki Nakamura</i>	FD
33	X-ray microtomography (micro-CT) of male terminalia sclerites and muscles of <i>Nothybus kuznetzovorum</i> Galinskaya & Shatalkin (Nothybidae) and <i>Cothornobata</i> Czerny (Micropezidae). <i>Olga G. Ovtshinnikova et al.</i>	FD
34	Male terminalia and their rotation in Tanyderidae (Tipulomorpha) since the Mesozoic. <i>Olga G. Ovtshinnikova et al.</i>	FD
35	A new species of <i>Apenethecia</i> Tsacas and new records of Drosophilidae from Kenya. <i>Mehrdad Parchami-Araghi</i>	FD
36	Further contribution to the vinegar fly (Drosophilidae) fauna of the New World. <i>Mehrdad Parchami-Araghi</i>	FD
37	Diptera associated with Hymenoptera in trap-nests in Palmas, Brazil. <i>Adriana Couto Pereira et al.</i>	FD
38	Identity and distribution of the enigmatic genus <i>Pyrgometopa</i> Kertész (Drosophilidae). <i>Gabriela Pirani & David Grimaldi</i>	S
39	Belgium on the lookout for exotic mosquito species (Culicidae). <i>Marc Pollet et al.</i>	FD
40	The effect of fat and protein in larval diet on adult size of <i>Chrysomya megacephala</i> (F.) (Calliphoridae). <i>William Rawson et al.</i>	S



41	Potential agents for biological control in Tunisian crops – the hoverflies (Syrphidae). <i>Antonio Ricarte et al.</i>	FD
42	Recent advances in the taxonomy of western Palaearctic hoverflies of the genus <i>Chrysotoxum</i> Meigen (Syrphidae). <i>Antonio Ricarte et al.</i>	FD
43	Comparative morphology of male terminalia of <i>Lepidodexia</i> Brauer & Bergenstamm (Sarcophagidae). <i>Paula Raile Riccardi & Cátia Antunes Mello-Patiu</i>	FD
44	Comparative morphology of the terminalia of Conopidae. <i>Leonardo Silvestre G. Rocha et al.</i>	FD
45	Three new Cretaceous fossil discoveries and an overview on the fossil Diptera fauna from Chapada do Araripe, Ceará, Brazil. <i>Leonardo Silvestre G. Rocha et al.</i>	FD
46	First record of <i>Pycnopota</i> Bezzi (Sphaeroceridae: Copromyzinae) for Brazil and description of two new species. <i>Isis Sá Menezes et al.</i>	S
47	Seasonal and elevational diversity gradient of Dixidae, Limoniidae, Tipulidae and Simuliidae along streams of the Parque Nacional do Itatiaia, Brazil. <i>Durval S. Santos et al.</i>	S
48	Diversity of Mycetophilidae (Bibionomorpha) reared from macrofungi of the high Andean forest, Central Cordillera of Colombia. <i>Carolina Henao Sepúlveda et al.</i>	S
49	Towards a taxonomic revision and phylogeny of Natalimyziidae (Schizophora: ? Sciomyoidea). <i>Pfarelo Grace Tshivhandekano et al.</i>	S
50	New species of <i>Bruggmannia</i> Tavares (Cecidomyiidae) from the Neotropical Region, with comments on host-plant association. <i>Maria Virginia Urso-Guimarães & Carolina de Almeida Garcia</i>	FD
51	Photographs as a means of revealing the adaptive function of morphological characters. <i>Nikita E. Vikhrev</i>	FD
52	Geographic variation of acoustic preferences and host specificity in frog-biting midges (Corethrellidae). <i>Jonas Virgo et al.</i>	S
53	Soil, sediment and water – hands down in fly surveys? <i>Emma Wahlberg</i>	S
54	Taxonomy of Fanniidae (Muscoidea) in China. <i>Ming-fu Wang & Dong Zhang</i>	FD
55	The potential role of post-mortem interval prediction performance in forensic entomological research design and interpretation. <i>Jeffrey D. Wells & Lynn R. LaMotte</i>	FD
56	Cladistic analysis of Phthiriinae Becker (Bombyliidae) using morphological characters. <i>Carolina Yamaguchi et al.</i>	S
57	First descriptions of the female terminalia of Afrotropical <i>Phthiria</i> Meigen (Bombyliidae: Phthiriinae). <i>Carolina Yamaguchi & Carlos José Einicker Lamas</i>	S
58	Phylogeny of the tribe Atissini (Ephydriidae). <i>Tadeusz Zatwarnicki</i>	FD

FD = full delegate; S = student

Attending delegates

Name	Country	Email
Abercrombie, Jay	United States	marshfly@sbcglobal.net
Addison, Pia	South Africa	pia@sun.ac.za
Allan, Sandy	United States	sandy.allan@ars.usda.gov
Amaral, Andre	Brazil	depereira@gmail.com
Amorim, Dalton de Souza	Brazil	dsamorim@usp.br
Anato, Florence	Benin	anatoflorence@yahoo.fr
Andersen, Trond	Norway	trond.andersen@uib.no
Anderson, Bruce	South Africa	banderso.bruce@gmail.com
Ang, Yuchen	Singapore	nhmay@nus.edu.sg
Arias, Gerardo	United Kingdom	gerardo.ariasrobledo@bristol.ac.uk
Azo'o Ela, Michelson	Cameroon	azooela@yahoo.fr
Bakhoun, Mame Theirno	Senegal	thierno.bakhoun@gmail.com
Baleba, Bernard Steve Soh	Kenya	bbaleba@icipe.org
Baranov, Viktor	Germany	baranowiktor@gmail.com
Barceló, Carlos	Spain	carlos.barcelo@uib.es
Bayless, Keith	Australia	keith.bayless@gmail.com
Bazyar, Zeinab	Brazil	s.z.e.bazyar@gmail.com
Benecke, Mark	Germany	forensic@benecke.com
Bernal, Ximena	United States	xbernal@purdue.edu
Beuk, Paul	Netherlands	muscapaul@gmail.com
Bickel, Daniel	Australia	Dan.Bickel@austmus.gov.au
Blagoderov, Vladimir	United Kingdom	v.blagoderov@nms.ac.uk
Boardman, Pete	United Kingdom	pete.ento22@gmail.com
Boontop, Yuvarin	Thailand	yuvarin9320@gmail.com
Bota, Luis	Mozambique	luisbota@yahoo.com.br
Boucher, Stephanie	Canada	stephanie.boucher@mcgill.ca
Brahma, Shubhranil	India	shubhra634@gmail.com
Brown, Brian V.	United States	BBrown@nhm.org
Buenaventura, Eliana	United States	buenaventurae@si.edu
Burt, Trevor	Germany	trevburt@gmail.com
Butterworth, Nathan	Australia	nb187@uowmail.edu.au
Cabrero, Allan	United States	acabrero@berkeley.edu
Camargo da Silveira, Alexssandro	Brazil	alexssandroecs@gmail.com
Carles-Tolra, Miguel	Spain	diptera@outlook.com
Carmo, Daniel	Brazil	dandorndias@gmail.com
Cassel, Brian	United States	brian_cassel@ncsu.edu
Cerretti, Pierfilippo	Italy	pierfilippo.cerretti@uniroma1.it
Chao, Yi-Min	Taiwan	wert6213217@gmail.com
Chen, Xiaolin	China	xlchen@ioz.ac.cn
Chikowore, Gerald	Zimbabwe	gkchikore@gmail.com
Claridge, Brandon	United States	brandonclaridgel@si.edu
Coetzee, Maureen	South Africa	maureen.coetzee@wits.ac.za
Cohen, Chris	United States	myelaphus@gmail.com
Colville, Jonathan	South Africa	jonathan.colville@gmail.com
Copeland, Robert	Kenya	rcopeland@icipe.org
Cranston, Peter	Australia	pscranston@gmail.com
Cumming, Jeffrey	Canada	Jeff.Cumming@agr.gc.ca



Attending delegates

Name	Country	Email
Curler, Gregory	United States	gcurler@gmail.com
Currie, Douglas	Canada	dc.currie@utoronto.ca
Dahlem, Gregory	United States	dahlem@nku.edu
Dawson, Blake	Australia	bmd994@uowmail.edu.au
De Beer, Chantel	South Africa	debeerc@arc.agric.za
De Meyer, Marc	Belgium	demeyer@africamuseum.be
de Silva, Priyanka	Sri Lanka	depriyanka@pdn.ac.lk
Dikow, Torsten	United States	dikowt@si.edu
Dios, Rodrigo	Brazil	rodrigodios@gmail.com
Dorchin, Netta	Israel	ndorchin@tauex.tau.ac.il
Duvallet, Gerard	France	gerard.duvallet@univ-montp3.fr
Egonyu, James	Uganda	egonyu@gmail.com
Eiseb, Seth	Namibia	seth_eiseb@yahoo.co.uk
Ellis, Allan	South Africa	agellis@sun.ac.za
Eltz, Thomas	Germany	thomas.eltz@ruhr-uni-bochum.de
England, Marion	United Kingdom	marion.english@pirbright.ac.uk
Evenhuis, Neal	United States	neale@bishopmuseum.org
Fachin, Diego	Brazil	diegoafachin@gmail.com
Fameni Topé, Sidonie	Cameroon	sidofameni@gmail.com
Feijen, Hans	Netherlands	hansfeijen19@yahoo.co.uk
Feijen-van Soest, Cobi	Netherlands	cobi.feijen@naturalis.nl
Flores, Heloísa	Brazil	helo.flores@hotmail.com
Fogaca, Joao Manuel	Brazil	fogacabio@gmail.com
Földesi, Rita	Germany	foldesri@gmail.com
Gaimari, Stephen	United States	stephen.gaimari@cdfa.ca.gov
Galinskaya, Tatiana	Russia	nuha1313@gmail.com
Gil Azevedo, Leonardo H.	Brazil	lhgazevedo@gmail.com
Gilbert, Allison	South Africa	allison.e.gilbert@gmail.com
Gillung, Jessica	United States	jgg.bio@gmail.com
Gisoni, Silvia	Italy	silvia.gisoni@uniroma1.it
Godfrey, Andrew	United Kingdom	andy_godfrey_entomology@hotmail.com
Goergen, Georg	Benin	g.goergen@cgiar.org
Gomes, Lucas	Brazil	lucaspergos@gmail.com
Gonçalves, Ana Rita	Portugal	anagoncalvesm@gmail.com
Gottschalk, Marco	Brazil	gotts007@yahoo.com
Gouvêa, Jessica	Brazil	jpgouveabio@gmail.com
Grafe, T. Ulmar	Brunei	grafe@biozentrum.uni-wuerzburg.de
Grzywacz, Andrzej	Poland	grzywacz@umk.pl
Hadrava, Jiří	Czech Republic	hadravajirka@seznam.cz
Hall, Martin	United Kingdom	m.hall@nhm.ac.uk
Haran, Julien	France	julien.haran@cirad.fr
Hartop, Emily	Sweden	emhartop@gmail.com
Hash, John	United States	hashjm@si.edu
Hauser, Martin	United States	Phycus@gmail.com
Heiduk, Annemarie	Austria	annemarie.heiduk@gmx.net
Henao Sepúlveda, Carolina	Colombia	andreac.henao@udea.edu.co
Herbert, Charlotte	United States	ceherbert@ucdavis.edu

Attending delegates

Name	Country	Email
Heyns, Marise	South Africa	marise.heyns@uct.ac.za
Hogsette, Jerome	United States	Jerry.Hogsette@ars.usda.gov
Huangfu, Ning	China	819067530@qq.com
Ismay, Barbara	United Kingdom	schultmay@insectsrus.co.uk
Ismay, John	United Kingdom	schultmay@insectsrus.co.uk
Ivković, Marija	Croatia	marija.ivkovic@biol.pmf.hr
Jaschhof, Catrin	Sweden	cjaschhof@yahoo.de
Jaschhof, Mathias	Sweden	mjaschhof@yahoo.de
Jensen, Arn Rytter	Denmark	arnrytter@gmail.com
Johnston, Nikolas	Australia	npj304@uowmail.edu.au
Jordaens, Kurt	Belgium	kurt.jordaens@africamuseum.be
Joseph, Rosalia	Namibia	rosaliannjoseph@gmail.com
Karsten, Minette	South Africa	minettek@sun.ac.za
Kato, Daichi	Japan	hehemanpuldoa.d4@gmail.com
Kilian Salas, Isabel Catalina	Germany	I.Kilian@gmx.de
Kirik, Heli	Estonia	hekirik@gmail.com
Kirk-Spriggs, Ashley H.	South Africa	ashley.kirk-spriggs@nasmus.co.za
Kirk-Spriggs, Mary	South Africa	mary.kirk-spriggs@nasmus.co.za
Kjørandsen, Jostein	Norway	jostein.kjarandsen@uit.no
Kline, Daniel	United States	dan.kline@ars.usda.gov
Kopeć, Katarzyna	Poland	kopec1981@gmail.com
Kornieiev, Valerii	Ukraine	valery.korneyev@gmail.com
Krenn, Harald	Austria	harald.krenn@univie.ac.at
Krzemiński, Wiesław	Poland	yukisiak@gmail.com
Kubik, Stepan	Czech Republic	kubik@af.czu.cz
Kurina, Olavi	Estonia	olavi.kurina@emu.ee
Kustov, Semen	Russia	kustov-semen@mail.ru
Kvifte, Gunnar Mikalsen	United States	gkvifte@purdue.edu
Lempereur, Laetitia	Belgium	llempeur@ulg.ac.be
Lessard, Bryan	Australia	Bryan.Lessard@csiro.au
Letana, Socrates	United States	sdletana@ucdavis.edu
Li, Xinyu	China	136179665@qq.com
Li, Xuankun	Australia	xuankun.li@csiro.au
Li, Zhu	China	bamboo_l@163.com
Limeira, Francisco	Brazil	limeiraf@gmail.com
Lin, Sheng-Feng	Taiwan	sflin654@gmail.com
Lin, Xiaolong	China	lin880224@gmail.com
Lindemann, Jon	Norway	jon.p.lindemann@uit.no
Londt, Jason	South Africa	londtja@telkomsa.net
Lumbers, James	Australia	james.lumbers@gmail.com
Lüsse, Hans	Namibia	hglueesse@iway.na
Madamba, Dorothy	Zimbabwe	madambadc@gmail.com
Madriz, R. Isai	Chile	rimadriz1@gmail.com
Mafuwe, Kudzai	Zimbabwe	kudzimaffy@gmail.com
Magnussen, Trude	Norway	trude.magnussen@nhm.uio.no
Marcos-García, M ^a Ángeles	Spain	marcos@ua.es
Marinho, Marco Antonio	Brazil	marco.marinho@gmail.com



Attending delegates

Name	Country	Email
Marques, Dayse Willkenia	Brazil	willkenia@gmail.com
Marshall, Stephen A.	Canada	samarsha@uoguelph.ca
Masunaga, Kazuhiro	Japan	masunaga-kazuhiro@biwahaku.jp
Mathieu, Bruno	France	bmathieu@unistra.fr
McAlister, Erica	United Kingdom	e.mcalister@nhm.ac.uk
Md Yusof, Nur Athiqah	Canada	nurathiqah.mdyusof@gmail.com
Meier, Rudolf	Singapore	meier@nus.edu.sg
Mello, Ramon	Brazil	ramonmello@gmail.com
Menezes, Isis Sá	Brazil	isis.sa.menezes@gmail.com
Mengual, Ximo	Germany	x.mengual@leibniz-zfmk.de
Midgley, John	South Africa	johnmidge@gmail.com
Miranda, Miguel Angel	Spain	ma.miranda@uib.es
Mlambo, Musa	South Africa	musa.mlambo@gmail.com
Mokam, Didi Gaëlle	Cameroon	tawogaelle@yahoo.fr
Montoya Giraldo, Augusto Leon	Colombia	guto.spider@gmail.com
Moran, Kevin	Canada	syrphidae@kevinmoran.com
Morland, Gail	Namibia	morlandgail@gmail.com
Moulton, Kevin	United States	jmoulton@utk.edu
Mukherjee, Tuhar	India	tuharmukherjeeofficial@gmail.com
Muller, Burgert	South Africa	burgert.muller@nasmus.co.za
Mulwa, Joseph	Kenya	josemulwa0009@gmail.com
Mwatawala, Maulid	Tanzania	mwatawala@sua.ac.tz
Mwema, Tabeth	Namibia	tabethmwema@yahoo.com
Nakamura, Satoshi	Japan	s.nakamura@affrc.go.jp
Nakamura, Takeyuki	Japan	craneflyheaven@ybb.ne.jp
Kutty, Sujatha N.	Singapore	sujathank@gmail.com
Nartshuk, Emilia	Russia	chlorops@zin.ru
Ndayizeye, Lievin	Burundi	ndayizeyelielin@yahoo.com
Nelson, C. Riley	United States	rileynelson@byu.edu
Niederegger, Senta	Germany	senta.niederegger@med.uni-jena.de
Njoroge, Laban	Kenya	Lnjoroge@museums.or.ke
Noble, Katherine	United States	kgm.noble@gmail.com
Norrbom, Allen	United States	allen.norrbom@ars.usda.gov
O'Hara, James	Canada	james.ohara@agr.gc.ca
Oliver, Shúné	South Africa	shuneo@nicd.ac.za
Ovtshinnikova, Olga	Russia	brach@zin.ru
Papadopoulos, Nikolaos	Greece	nikopap@uth.gr
Pape, Thomas	Denmark	tpape@snm.ku.dk
Parchami-Araghi, Mehrdad	Iran	maraghi20@yahoo.com
Pereira, Adriana Couto	Brazil	adriana.couto@ifpr.edu.br
Pereira, Thalles	Brazil	pereiratpl@ib.usp.br
Pillay, Tricia	South Africa	tpillay@nmsa.org.za
Pinho, Luiz Carlos	Brazil	luizcarlospinho@gmail.com
Pirani, Gabriela	Brazil	gabi.pirani3107@gmail.com
Pivar, Robert	United States	rpivar@vols.utk.edu
Piwczyński, Marcin	Poland	piwczyn@umk.pl
Polevoi, Aleksei	Russia	alexei.polevoi@krc.karelia.ru

Attending delegates

Name	Country	Email
Pollet, Marc	Belgium	marc.pollet@inbo.be
Pollini Paltrinieri, Lucia	Switzerland	lucia.pollini@ti.ch
Pont, Adrian	United Kingdom	pont.muscidae@btinternet.com
Przhiboro, Andrey	Russia	dipteran@mail.ru
Rasolondalao, Harin Hala	Madagascar	rinha75@hotmail.com
Rawson, William	South Africa	wrawson@gmail.com
Ricarte, Antonio	Spain	ricarte24@gmail.com
Riccardi, Paula	Brazil	paularriccardi@gmail.com
Richenbacher, Courtney	United States	crichenbacher@amnh.org
Rocha, Leonardo	Brazil	leonardo.rocha@urca.br
Rulik, Bjoern	Germany	b.rulik@leibniz-zfmk.de
Sánchez Molina, Óscar	Brazil	o.sanchezmolina@gmail.com
Santos, Durval	Brazil	durvaluerj@gmail.com
Savage, Jade	Canada	jade.savage@ubishops.ca
Schlemmer, Marie-Louise	South Africa	marie-louise@insectscience.co.za
Schnitzler, Franz-Rudolf	New Zealand	schnitzlerr@landcareresearch.co.nz
Silva, Fabio L.	Brazil	fabiologia@gmail.com
Silva, Vera Cristina	Brazil	silva.vera8@gmail.com
Sinclair, Bradley	Canada	bradley.sinclair@inspection.gc.ca
Sinzinkayo, Eugène	Burundi	sineuge60@gmail.com
Skevington, Jeffrey	Canada	jhskevington@gmail.com
Skibińska, Kornelia	Poland	yukisiak@gmail.com
Smart, Malcolm	United Kingdom	malcolmsmart@talktalk.net
Smith, Rosali	South Africa	rosalismsmith2@gmail.com
Smythe, Brandon	United States	bsmythe@nmsu.edu
Snell, Sharon	South Africa	snell@nasmus.co.za
Snyman, Loki	South Africa	lokisnyman@gmail.com
Soszyńska-Maj, Agnieszka	Poland	agnieszka.soszynska@biol.uni.lodz.pl
Ssymank, Axel	Germany	Ssymanka@t-online.de
Stähls-Mäkelä, Gunilla	Finland	gunilla.stahls@helsinki.fi
Starkie, Melissa	Australia	Melissa.Starkie@hdr.qut.edu.au
Steck, Gary	United States	gary.steck@freshfromflorida.com
Stireman, John	United States	john.stireman@wright.edu
Stuke, Jens-Hermann	Germany	jstuke@zfn.uni-bremen.de
Swart, Vaughn	South Africa	Swartvr@ufs.ac.za
Szentivanyi, Tamara	Switzerland	tamaraszentivanyi@gmail.com
Szpila, Krzysztof	Poland	szpila@umk.pl
Tachi, Takuji	Japan	tachi@scs.kyushu-u.ac.jp
Tagami, Yohsuke	Japan	tagamiy@gmail.com
Tang, Chufei	China	tcf0816@126.com
Theron, Genevieve	South Africa	genevieveitheron@gmail.com
Thomas-Cabianca, Arianna	Spain	athomasbio@gmail.com
Thomason, Roger	United Kingdom	thomasonre@gmail.com
Thyssen, Patricia	Brazil	thyssenpj@yahoo.com.br
Torres Toro, Juliana	Colombia	juliana.torres@udea.edu.co
Toukem, Nadia	Cameroon	Danielle.toukem1@gmail.com
Trautwein, Michelle	United States	michelletrautwein@gmail.com



Attending delegates

Name	Country	Email
Tshivhandekano, Grace	South Africa	ptshivhandekano@ufh.ac.za
Turcatel, Mauren	United States	turcatelm@si.edu
Uiseb, Kenneth	Namibia	kenneth.uisseb@met.gov.na
Umeh, Vincent	Nigeria	vumeha@yahoo.com
Urso-Guimarães, Maria Virginia	Brazil	mvirginiaurso@gmail.com
Vala, Jean-Claude	France	jean-claude.vala@univ-orleans.fr
van der Niet, Timo	South Africa	vdniet@gmail.com
van der Weele, Ruud	Netherlands	rvanderweele@gmail.com
Vikhrev, Nikita	Russia	nikita6510@ya.ru
Villet, Martin	South Africa	m.villet@ru.ac.za
Virgo, Jonas	Germany	jonas.virgo@rub.de
Wahlberg, Emma	Sweden	emma.wahlberg@nrm.se
Wall, Richard	United Kingdom	richard.wall@bristol.ac.uk
Wallman, James	Australia	jwallman@uow.edu.au
Wang, Jiangning	China	wangjn@ioz.ac.cn
Wang, Mingfu	China	wangmingfu403@163.com
Warrington, Barry	United Kingdom	Agromyzidaers@gmail.com
Wells, Jeffrey	United States	jedwell@fiu.edu
Whitehead, Liezl	South Africa	liezlwhitehead1@gmail.com
Whitmore, Daniel	United Kingdom	d.whitmore@nhm.ac.uk
Whitworth, Terry	United States	blowfly@twhitworth.com
Wiegmann, Brian	United States	bwiegman@ncsu.edu
Williams, Kirstin	South Africa	williamskirst@gmail.com
Winterton, Shaun	United States	wintertonshaun@gmail.com
Wishon, Danielle	United States	dbugwish@gmail.com
Wolff, Marta	Colombia	marta.entomologia@gmail.com
Wyborska, Dominika	Poland	dominika.wyborska@wp.pl
Yamaguchi, Carolina	Brazil	carolguchi@gmail.com
Yan, Liping	China	yanlp523@qq.com
Yau, Tiffany	Canada	tyau@alumni.uoguelph.ca
Yeates, David	Australia	david.yeates@csiro.au
Yeo, Darren	Singapore	darrn.yeo@gmail.com
Young, Andrew	Canada	adyoung@gmail.com
Zatwarnicki, Tadeusz	Poland	zatwar@uni.opole.pl
Zhang, Chuntian	China	chuntianzhang@aliyun.com
Zhang, Dong	China	ernest8445@163.com
Zhang, Qingqing	China	qqzhang@nigpas.ac.cn

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Acknowledgements

ICD9 acknowledges the following symposium Convenors (past and present) who have assisted by soliciting papers, accepting abstract submissions and convening sessions on the respective days: Victor Baranov, Keith M. Bayless, Ximena Bernal, Daniel Bickel, Vladimir Blagoderov, Chris Borkent, Pierfilippo Cerretti, Marcia Couri, Jeffrey Cumming, Gregory Curler, Douglas C. Currie, Claudio J.B. de Carvalho, Marc De Meyer, Torsten Dikow, Stephen Gaimari, Leonardo H. Gil-Azevedo, Jessica P. Gillung, John Hargrove, Emily Hartop, John Hash, Jerry Hogsette, Michael Irwin, Barbara Ismay, John Ismay, Kurt Jordaens, Minette Karsten, Jostein Kjærandsen, Daniel L. Kline, Rodrigo Kruger, Gunnar Mikalsen Kvitte, Karien Labuschagne, Carlos J.E. Lamas, Bryan D. Lessard, John Midgley, Silvio Nihei, Sarah Oliveira, Shüné Oliver, Thomas Pape, Marc Pollet, Harin Hala Rasolondalao, Olivia Reynolds, Leonardo Silvestre Rocha, Bradley Sinclair, John Stireman III, John Terblanche, Martin Villet, Kirstin Williams and Andrew D. Young.



We gratefully acknowledge the support of the following sponsors



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