

# 5th International Congress of Dipterology Provisional Program

[Sunday 29 September](#) | [Monday 30 September](#) | [Tuesday 1 October](#) | [Wednesday 2 October](#) | [Thursday 3 October](#) | [Friday 4 October](#)

Time	SUNDAY 29 SEPTEMBER
	<b>4.00pm - REGISTRATION</b>
	<b>5.00pm - 7.00pm - WELCOME DRINKS - <i>Student Union Heath/Holt Rooms</i></b> <b>6pm Welcome Address by David Yeates "Blowies, Mossies and the Great Aussie Salute"</b>

Time	MONDAY 30 SEPTEMBER	
8.00 -	REGISTRATION	
9.00-9.30	<b>WELCOME and OPENING ADDRESS - <i>Steele Building Room 206</i></b> Welcome by David Yeates (Chair) Welcome to University of Queensland by Professor David Siddle (Deputy Vice-Chancellor (Research), University of Queensland) Geoff Garrett (CEO, CSIRO)	
9.30-10.30	<b>SYMPOSIUM - The Influence of Modern Innovations on Systematic Inquiry, with Emphasis on Diptera (Chair: Mike Irwin)</b> The influence of modern innovations on systematic inquiry, with emphasis on Diptera <b>Michael Irwin</b> Phylogenetic assessment: the advent of the Hennigian Philosophy <b>Rudolf Meier</b> Molecular biology: a set of new characters for phylogenetic assessment <b>Brian Wiegmann</b> Modern innovations in systematic inquiry <b>Christine Lambkin</b>	
10.30-11.00	<b>REFRESHMENTS - <i>Student Union</i></b>	
11.00-12.30	Bioinformatics and the manipulation of biological information <b>Jim Croft</b> Web-based description and identification - what tools do we need? <b>Kevin Thiele</b> Geographical information systems: the spatial patterning of life <b>David Peters</b> Interpreting the fossil record of Diptera: the temporal patterning of life <b>David Grimaldi</b> Interpreting spatio-temporal patterns among select clades of Diptera <b>Evert Schlinger</b> The urgency to make all life known <b>Ian Cresswell</b>	
12.30-1.30	<b>LUNCH - <i>Student Union</i></b>	
1.30-3.00	<b>SYMPOSIUM - The Influence of Modern Innovations on Systematic Inquiry with Emphasis on Diptera (continued) (Chair: Mike Irwin)</b> and <b>SYMPOSIUM - Diptera in Biodiversity and Conservation 1 (Chair: Rudolf Meier)</b> <b><i>Steele Building Room 206</i></b>	<b>WORKSHOP - Hornfly Management and Resistance</b> <b><i>Steele Building Room 309</i></b> <b>(Chair: Lane Foil)</b>
	Diptera: a lot of flies yet to be discovered <b>Chris Thompson</b>	An overview of Horn Fly (Diptera: Muscidae) resistance surveys and research programs in the United States <b>Fred Knapp</b>

	<p>Discovering and managing the patterns of life - from RAM to rammed earth: a perspective from UNESCO <b>Ian Cresswell</b></p> <p>Concluding remarks, questions and discussion: Panel of Speakers <b>David Yeates</b></p> <p><b>2.15pm SYMPOSIUM - Diptera in Biodiversity and Conservation 1</b></p> <p>Guild analyses in the study of dipteran biodiversity; a rationale and critique <b>Roger Kitching</b></p> <p>Diptera diversity on tree trunks <b>Daniel Bickel</b></p> <p>Australian glowworms (Diptera: Keroplatidae: <i>Arachnocampa</i> Spp.): identity, diversity, and management <b>Claire Baker</b></p>	<p>Field surveys of insecticide resistance in Australian buffalo fly <i>Haematobia irritans exigua</i> De Meijere (Diptera: Muscidae) <b>Bill Farnsworth</b></p> <p>A summary of studies on the economic impact of horn flies <b>Jerry Hogsette</b></p> <p>Management and resistance of horn fly and buffalo fly: diagnostic techniques for metabolic resistance <b>John Pruett</b></p> <p>Management and resistance of horn fly and buffalo fly: diagnostic techniques for target site resistance <b>Felix Guerrero</b></p> <p>Movement of horn flies among cattle herds <b>Ronnie Byford</b></p>	
3.00-3.30	<b>REFRESHMENTS - Student Union</b>		
3.30-5.00	<p><b>SYMPOSIUM - Diptera in Biodiversity and Conservation 2</b> <b>Steele Building Room 206</b> <b>(Chair: Dan Bickel)</b></p> <p>Antler flies (Phytalmia, Tephritidae) are fascinating, but not bioindicators <b>Gary Dodson</b></p> <p>Sedges, mud and myriads of flies: the brachyceran fauna of sedge meadows in southern Canada <b>Frederic Beaulieu</b></p> <p>Chironomid communities (Diptera, Chironomidae) in cold alpine springs. Prospect for a long-term biomonitoring <b>Elisabeth Stur</b></p> <p>The dipteran fauna of a Central European mountain stream <b>Ruediger Wagner</b></p> <p>The method of the evaluation of antropogenic changes in the environment by means of the family Chloropidae (Diptera). <b>Stepan Kubik</b></p> <p>Habitat modification and dipteran biodiversity in central New Zealand <b>Ian Andrew</b></p> <p>Biodiversity patterns in Neotropical dolichopodid faunas (Diptera: Dolichopodidae) <b>Marc Pollet</b></p> <p>Status and geographical distribution of three endangered Karelian keroplatids (Diptera: Keroplatidae) <b>Dimitri Bartenev</b></p>	<p><b>WORKSHOP - Hornfly Management and Resistance</b> <b>Steele Building Room 309</b> <b>(Chair: Lane Foil)</b></p> <p>Behaviour-modifying systems for the control of buffalo fly, <i>Haematobia irritans exigua</i> de Meijere (Diptera: Muscidae) <b>Rudolf Urech</b></p> <p>Control of the horn fly and buffalo fly - past, present and future chemistries and strategies <b>John Riner</b></p> <p>The use of endectocides for horn fly control <b>James Hawkins</b></p> <p>Strategies for managing horn fly, <i>Haematobia irritans</i>, resistance <b>Lane Foil</b></p>	<p><b>WORKSHOP - Sciomyzidae</b> <b>Steele Building Room 324</b> <b>(Chair: Lloyd Knutson)</b></p> <p>The struggle over reconstructing the phylogenetic relationships of the Sciomyzoidea (Diptera) <b>Rudolf Meier</b></p> <p>Morphodiversity and biodiversity in <i>Sepedon</i> Latreille and related genera: a lineage, a tribe, or a subfamily? (Diptera: Sciomyzidae) <b>Lloyd Knutson</b></p> <p><i>Sepedon knutsoni</i>, a second oligochaete feeding sciomyzid from Africa <b>Jean-Claude Vala</b></p> <p>Predation and trail-following behaviour in selected marsh fly species (Diptera: Sciomyzidae) <b>Rory Mc Donnell</b></p>
5.00 -	<b>HAPPY HOUR / POSTER VIEWING - POSTER AUTHORS TO BE PRESENT</b> <i>Student Union Heath/Holt Rooms</i> FREE EVENING		

## TUESDAY 1 OCTOBER

Time	TUESDAY 1 OCTOBER		
8.00 -	REGISTRATION		
8.10-8.50	<b>PLENARY SPEAKER - Steele Building Room 206</b> Phylogenetic relationships of nematocerous Diptera: synopsis of recent hypotheses <a href="#">Greg Courtney, Iowa State University</a> (Chair: <b>Monty Wood</b> )		
9.00-10.30	<b>SYMPOSIUM - Multiple Data Set Analyses for Dipteran Phylogenetics</b> <b>Steele Building Room 206</b> <b>(Chair: Brian Wiegmann)</b>	<b>SYMPOSIUM - Sperm Olympics: Sperm Competiton, Cryptic Female Choice and Mating Behaviour in Diptera</b> <b>Steele Building Room 309</b> <b>(Chair: Marion Kotrba)</b>	<b>WORKSHOP - Muscidae, Anthomyiidae</b> <b>Steele Building Room 324</b> <b>(Chair: Adrian Pont)</b>
	A genomic approach to phylogenetics: multiple gene systematics of the Drosophilidae <b>Patrick O'Grady</b>  Significant incongruence can be informative: insights from partitioned support analyses <b>Christine Lambkin</b>  Genes, fossils and morphology: combined data analysis and a revised time scale for higher-level phylogeny of the Brachycera <b>Brian Wiegmann</b>  Molecular and morphological evidence supporting relationships within Eremoneura: focus on Cyclorrhapha <b>Jeff Skevington</b>  Multiple data sets in addressing complex evolutionary questions within Diptera: case studies within Empidoidea and Simuliidae <b>John Moulton</b>  In search of an outgroup for the Tanyderidae (Diptera): conflict or congruence? <b>Darlene Judd</b>	The female reproductive tract in Diptera I: an introduction <b>Marion Kotrba</b>  The female reproductive tract in Diptera II: morphological diversity and details of the female reproductive tract in acalyptrate Schizophora <b>Marion Kotrba</b>  Female remating, operational sex ratio, and the arena of sexual selection <b>Therese Markow</b>  The labyrinth explored: female sperm storage organs, related structures, and sperm storage patterns in the tephritid fly, <i>Anastrepha suspensa</i> . <b>Ann Fritz</b>  Female remating, sperm displacement, remating speed, fertility, <i>Drosophila ananassae</i> <b>Shree Ram Singh</b>  Non-antagonistic reproductive interactions between the sexes: offsetting the load of sexual conflict <b>Lacey Knowles</b>	Diversity and taxonomy of catkin flies (Egle, Anthomyiidae) <b>Graham Griffiths</b>  The plumosa group of Hydrophoria (Anthomyiidae) <b>Masaaki Suwa</b>  A cladistic analysis of the Muscidae: first results - and problems <b>Adrian Pont</b>  Muscidae (Diptera) of the Neotropical Region: taxonomy of the basal groups <b>Claudio Carvalho</b>  Muscidae (Diptera) of the Neotropical Region - taxonomy of the apical groups <b>Mercia Couri</b>  A molecular phylogeny of the <i>Stomoxys</i> group based on cytochrome oxidase I. (Presented by Adrian Pont) <b>Rosanna Giordano</b>
10.30-11.00	REFRESHMENTS - <i>Student Union</i>		
11.00-12.30	<b>SYMPOSIUM - Multiple Data Set Analyses for Dipteran Phylogenetics (continued)</b> <b>(Chair: Brian Wiegmann)</b> and <b>SYMPOSIUM - Diptera in Biodiversity and Conservation 3</b> <b>(Chair: Rudolf Meier)</b> <b>Steele Building Room 206</b>	<b>WORKSHOP - Muscidae, Anthomyiidae</b> <b>Steele Building Room 324</b> <b>(Chair: Adrian Pont)</b>	
	Multiple data sets and syrphid phylogenetics <b>Gunilla Stahls-Makela</b>  Phylogeny of Syrphinae (Diptera, Syrphidae) on the basis of morphological and molecular characters <b>Heikki Hippa</b>	Phylogeny of the genus <i>Thricops</i> Rondani (Diptera: Muscidae) based on molecular and morphological evidence. <b>Jade Savage</b>  Distributional pattern of Muscidae in the Neotropical Region - a preliminary approach <b>Claudio Carvalho</b>	

	<p>Combining molecular and morphological data for Sepsidae, Coelopidae, and Diopsidae: More conflict than congruence <b>Rudolf Meier</b></p> <p>Phylogeny of the small headed-flies (Diptera: Acroceridae) using multiple molecular markers <b>Shaun Winterton</b></p> <p><b>15 minute break before start of next session</b></p> <p><b>SYMPOSIUM - Diptera in Biodiversity and Conservation 3</b></p> <p>An estimate of dipteran species- richness in Australia <b>David Yeates</b></p>	<p>Comparison of the cuticular hydrocarbons of 7 <i>Musca</i> spp. worldwide (Diptera: Muscidae) <b>David Carlson</b></p>	
12.30-1.30	<b>LUNCH - Student Union</b>		
1.30-3.00	<p><b>SYMPOSIUM - Diptera in Biodiversity and Conservation 3</b> <b>Steele Building Room 206</b> <b>(Chair: Rudolf Meier)</b></p>	<p><b>WORKSHOP - Management of Tephritidae</b> <b>Steele Building room 309</b> <b>(Chair: Dick Drew)</b></p>	<p><b>WORKSHOP - Systematics and Ecology of Oestroidea + Hippoboscoidea</b> <b>Steele Building Room 324</b> <b>(Chair: James O'Hara)</b></p>
	<p>Nearctic Diptera: what we know and what we do not <b>Chris Thompson</b></p> <p>The Afrotropical Diptera - an overview <b>Brian Stuckenberg</b></p> <p>Neotropical Diptera biodiversity: an overview <b>Dalton De Souza Amorim</b></p> <p>Dipteran biodiversity of the Galapagos Islands (Ecuador) <b>Bradley Sinclair</b></p> <p>Hawaii as a Diptera biodiversity Hot Spot: a helluva lot of halteres in the Hawaiian Islands <b>Neal Evenhuis</b></p> <p>New Zealand Diptera: diversity and scope for further studies <b>Rod Macfarlane</b></p>	<p>Antlered Flies (Tephritidae: <i>Phytalmia</i>) of New Guinea and Australia <b>Gary Dodson</b></p> <p>Sexual selection in a tropical fruit fly: role of a plant derived chemical in mate choice <b>S Raghu</b></p> <p>Geographical distribution and seasonal abundance of pest fruit flies in Papua New Guinea <b>David Putulan</b></p> <p>Polytene chromosome analysis, esterase isozyme and Larval Serum Protein (LSP) banding patterns in the melon fly <i>Bactrocera cucurbitae</i> Coq. (Diptera: Tephritidae) with reference to irradiation treatment <b>Farzana Yesmin</b></p>	<p>Advances in the phylogenetics of the Tachininae (Tachinidae) <b>James O'Hara</b></p> <p>A review of New World Zaira Robineau-Desvoidy (Diptera; Tachinidae; Blondeliini) <b>Dan Hansen</b></p> <p>Louse-flies (Diptera: Hippoboscidae) in the Central Black Soil Region of Russia <b>Sergey Gaponov</b></p>
3.00-3.30	<b>REFRESHMENTS - Student Union</b>		
3.30-5.00	<p><b>SYMPOSIUM - Diptera in Biodiversity and Conservation 4</b> <b>Steele Building Room 206</b> <b>(Chair: Dan Bickel)</b></p>	<p><b>WORKSHOP - Agromyzidae</b> <b>Steele Building Room 309</b> <b>(Chair: David Henshaw)</b></p>	
	<p>Assessing species richness of Diptera using museum collections <b>Frederik Petersen</b></p> <p>Extrapolating from the observed species richness in a revision to its 'true' species diversity. A case study using <i>Euscelidia</i> (Asilidae: Diptera) <b>Torsten Dikow</b></p> <p>Spectacular diversity in <i>Cladochaeta</i> (Drosophilidae): anomalous or typical for Neotropical acalyptrate flies? <b>David Grimaldi</b></p>	<p><b>Tribute to Kenneth Spencer</b></p> <p>The phylogeny of Agromyzidae inferred from morphological characters <b>Martin Dempewolf</b></p> <p>Mine density, parasitism and emergence of the leafminers, <i>Liriomyza cicerina</i> (Rondani) and <i>Liriomyza bryoniae</i> (Kalt.) (Diptera: Agromyzidae), and parasitoids on broad beans in Egypt. <b>Samir El-Serwy</b></p>	

	<p>Why are there so many genera of Chloropidae? <b>Terry Wheeler</b></p> <p>The diversity of neotropical Micropezidae <b>Steve Marshall</b></p> <p>Biodiversity studies of Namibian Diptera - a developing country approach <b>Ashley Kirk-Spriggs</b></p>	<p>Seasonal fluctuations of the wheat leafminer, <i>Agromyza nigrella</i> (Rondani) (Diptera: Agromyzidae), and parasitism in Lower and Middle Egypt. <b>Samir El- Serwy</b></p> <p>Revision of nearctic species of Cerodontha (Cerodontha) (Diptera: Agromyzidae) with additional notes on other subgenera <b>Stephanie Boucher</b></p> <p>A CD-ROM on Agromyzidae of economic significance <b>Martin Dempewolf</b></p> <p>Feeding habits and the so called phytophagy of Chloropidae (Diptera) <b>Michael von Tschirnhaus</b></p>
7.00	<b>DINNER AT AUSTRALIAN WOOLSHED Coaches depart from Kings College 6.15pm Coaches depart Woolshed at 10.30pm</b>	

Time	WEDNESDAY 2 OCTOBER	
8.10-8.50	<b>PLENARY SPEAKER - Steele Building Room 206</b> The fossil history of associations between the Diptera and other organisms <a href="#">Conrad Labandeira</a> , <b>Smithsonian Institution (Chair: Brian Stuckenberg)</b>	
09.00-10.30	<p><b>CONTRIBUTED PAPERS - Fossils and Biogeography</b> (Chair: <a href="#">Conrad Labandeira</a>) and <b>CONTRIBUTED PAPERS - Evolution and Biology</b> (Chair: <a href="#">Gary Taylor</a>) <b>Steele Building Room 206</b></p>	<p><b>CONTRIBUTED PAPERS - Behaviour and Physiology</b> <b>Steele Building Room 309</b> (Chair: <a href="#">Gary Dodson</a>)</p>
	<p>Origin of main evolutionary lineages of the Diptera - fossil evidences <b>Wieslaw Krzeminski</b></p> <p>How recent are the Empidoidea of Baltic amber? <b>Hans Ulrich</b></p> <p>Amphipacific disjunctions in net-winged midges (Diptera: Blephariceridae) <b>Peter Zwick</b></p> <p><b>15 Minute break before start of next session</b></p> <p><b>CONTRIBUTED PAPERS - Evolution and Biology</b></p> <p>The Fergusoninidae: co-evolution between gall-flies, nematodes and their myrtaceous hosts. <b>Gary Taylor</b></p> <p>New Zealand robber flies: phenology and biogeography <b>Rod Macfarlane</b></p>	<p>Regulation of bioluminescence in Australian glow-worms <b>David Merritt</b></p> <p>Chemical cues regulate oviposition site selection in the midge <i>Chironomus tepperi</i> Skuse (Chironomidae) <b>Mark Stevens</b></p> <p>Different female ovipositing strategies in tephritid species of the family Tephritidae (Diptera) in <i>Centaurea scabiosa</i> (Asteraceae) - central Europe <b>Judita Kinkorova</b></p> <p>Flies that attack polymorphic snails on coloured backgrounds: selection for crypsis by a sarcophagid parasitoid of the marine snail <i>Littoraria filosa</i> <b>Steve McKillup</b></p>
10.30-11.00	<b>REFRESHMENTS - Student Union</b>	
11.00-12.30	<p><b>CONTRIBUTED PAPERS - Evolution and Biology</b> <b>Steele Building Room 206</b> (Chair: <a href="#">Gary Taylor</a>)</p>	<p><b>WORKSHOP - Cecidomyiidae</b> <b>Steele Building Room 309</b> (Chair: <a href="#">Junichi Yukawa</a>)</p>
	<p>Evolution of the sclerotised plant-piercing oviscapt in <i>Thrypticus</i> (Diptera: Dolichopodidae) <b>Daniel Bickel</b></p> <p>Do Wolbachia infections obscure phylogeographic patterns of the European cherry fruit fly? <b>Markus</b></p>	<p>Facultative competition between two gall-midge species (Cecidomyiidae) on <i>Suaeda monoica</i> (Chenopodiaceae) <b>Netta Dorchin</b></p> <p>Synchronization of gall midge emergence with host plant phenology <b>Junichi Yukawa</b></p>

	<p><b>Riegler</b></p> <p>Fly pollination and plant breeding systems: are flies good pollinators? <b>Chris Borkent</b></p> <p>On the natural history and all life-history stages of the only European stalk-eyed fly, <i>Sphyracephala europaea</i> (Diopsidae: Diptera). <b>Mihaly Foldvari</b></p> <p>The immature stages of soldier-flies (Diptera, Stratiomyidae) in South America - new reports and biodiversity <b>Jose Roberto Pujol Luz</b></p> <p>Sex, flies and videotape: pollination and sexual deception in the Australian terrestrial orchid <i>Pterostylis</i> <b>Joanna Hamilton</b></p> <p>Understanding the evolution of insect: microbe associations using <i>Drosophila melangaster</i> whole genome microarrays <b>Elizabeth McGraw</b></p>	<p>The gall midges (Cecidomyiidae) of <i>Carya</i> (Juglandaceae) in the Nearctic Region <b>Raymond Gagne</b></p> <p>Pupal characteristics of the Japanese <i>Asphondylia</i> gall midges (Diptera: Cecidomyiidae) and their species identification by DNA sequencing <b>Nami Uechi</b></p> <p>Morphology and a preliminary phylogenetic analysis of immatures of Neotropical <i>Asphondyliini</i> genera (Diptera: Cecidomyiidae) <b>Dalton De Souza Amorim</b></p> <p>Inter- and intraspecific comparison among <i>Asteralobia</i> gall midges (Diptera: Cecidomyiidae) on <i>Ilex</i> species (Aquifoliaceae): sympatric vs. allopatric speciation <b>Makoto Tokuda</b></p> <p>Zoophagous gall midges of the Italian fauna (Diptera: Cecidomyiidae) <b>Mario Solinas</b></p>
12.30-1.30	<b>LUNCH - Student Union</b>	
1.30-3.00	<p><b>SYMPOSIUM - Digital Diptera: Fly Identification in the New Millennium</b> <b>Steele Building Room 206</b> <b>(Chair: Steve Marshall)</b></p> <p>Fly identification: crisis, revolution or evolution? <b>Steve Marshall</b></p> <p>An interactive key to fly families: from Australia to the world! <b>David Yeates</b></p> <p>Simplified digital photography for museum work <b>Stephen Gaimari</b></p> <p>Identification: some basics and their implications for digital solutions <b>Chris Thompson</b></p> <p>DORSALIS - an interactive key to fruit flies of the <i>Bactrocera</i> (<i>Bactrocera</i>) <i>dorsalis</i> complex <b>Amy Lawson</b></p> <p>Identification of flies (Diptera) and other insects by general audiences using digital technologies: unlimited access to illustrations <b>Riley Nelson</b></p>	<p><b>CONTRIBUTED PAPERS - Systematics of Simuliidae</b> <b>Steele Building Room 309</b> <b>(Chair: Sixto Coscarón)</b></p> <p>Do the Neotropical <i>Simulium</i> subgenera constitute a monophyletic taxon? <b>Daniel Rafael Miranda-Esquivel</b></p> <p>A cladistic definition of <i>Simulium</i> (<i>Ectemnaspis</i>) and <i>S. (Psilopelmia)</i> subgenera (Diptera: Simuliidae) <b>Sixto Coscarón</b></p> <p>Systematics of black flies (Diptera: Simuliidae) in Thailand <b>Suwannee Phayusasena</b></p> <p>Taxonomic revision and cladistic analysis of <i>Simulium</i> (<i>Hearlea</i>) Vargas, Martínez Palacios &amp; Díaz Nájera (Diptera: Simuliidae) <b>Sixto Coscarón</b></p>
3.00-3.30	<b>REFRESHMENTS - Student Union</b>	
3.30-5.00	<p><b>CONTRIBUTED PAPERS - Phylogeny of Lower Diptera and Lower Brachycera</b> <b>Steele Building Room 206 (Chair: Brad Sinclair)</b></p> <p>From polyphyly to biogeography of Thereva (Asiloidea: Therevidae) <b>Kevin Holston</b></p> <p>New molecular and morphological evidence for the phylogenetic placement of <i>Phycini</i> and <i>Xestomyzini</i> (Diptera, Therevidae) <b>Martin Hauser</b></p> <p>The Exoprosopini, Australia and the world: revelations from systematic studies <b>Christine Lambkin</b></p> <p>A phylogenetic analysis of Bibionidae <b>Scott Fitzgerald</b></p> <p>The main clades of Sciaridae (Diptera) <b>Pekka Vilkkamaa</b></p>	
5.00-6.00	<b>OPEN COUNCIL MEETING Steele Building Room 206</b>	
6.00-7.00	<b>HAPPY HOUR - FREE EVENING</b>	

Time

THURSDAY 3 OCTOBER

8.10-8.50	<b>PLENARY SPEAKER</b> - <i>Steele Building Room 206</i> The Evolution of Segmentation and Body Patterning <a href="#">Nipan Patel</a> , <i>University of Chicago</i> (Chair: Brad Sinclair)		
9.00-10.30	<b>WORKSHOP - Development</b> (Chair: David Merritt) and <b>SYMPOSIUM - The Genetics of Biological Invasions</b> (Chair George Roderick) <i>Steele Building Room 206</i>	<b>CONTRIBUTED PAPERS - African Diptera: Biogeography and Gondwanaland</b> <i>Steele Building 309</i> (Chair: Ashley Kirk-Spriggs)	<b>WORKSHOP - Biology of Calliphoridae and Sarcophagidae</b> <i>Steele Building Room 324</i> (Chair: James Wallman)
	Evolution of embryonic axis specification in Diptera <b>Urs Schmidt-Ott</b>  Influential Passengers: Inherited <i>Wolbachia</i> infections of insects <b>Scott O'Neill</b>  <b>10 Minute break before next Session</b>  <b>SYMPOSIUM - The Genetics of Biological Invasions</b>  Introduction <b>George Roderick</b>  Genetic tools for studying invasive Diptera <b>Andrew Bohonak</b>  Tracking the spread of the invasive horn and buffalo flies, <i>Haematobia irritans irritans</i> and <i>H. i. Exigua</i> , using cytochrome oxidase I and <i>Wolbachia</i> <b>Rosanna Giordano</b> (Presented by Adrian Pont)	The biogeographical relationships of the Acroceridae of Africa, Madagascar and South America <b>Evert Schlinger</b>  New insights into the palaeogeography and breakup of Gondwana, and some associated biogeographical topics <b>Brian Stuckenberg</b>  African biogeography patterns - an introduction <b>Ashley Kirk-Spriggs</b>  The distributional patterns for neotropical / afrotropical / australo-oriental <i>Simulium</i> Latreille (Diptera: Simuliidae) subgenera <b>Daniel Rafael Miranda-Esquivel</b>  Biogeography of Afrotropical Chironomidae (Diptera) <b>Torbjorn Ekrem</b>  The phylogenetic relationships of <i>Archaeochlus</i> Brundin, <i>Austrochlus</i> Cranston and <i>Afrochlus</i> Freeman (Diptera: Nematocera), basal chironomid genera with a Gondwanan connection <b>Jon Martin</b>	Phylogeny of Chrysomyine blow flies <b>Hiromu Kurahashi</b>  Biodiversity of sarcophagid, calliphorid and muscid flies (Diptera) of Sundarbans Biosphere Reserve, India <b>Bhanu Chandra Nandi</b>  The evolution of ectoparasitism in calliphorid blowflies <b>Jamie Stevens</b>  Flesh flies (Sarcophagidae) from southern Appalachian mountain summits: rare species, rare sites, and human encroachment <b>Greg Dahlem</b>  Molecular systematics and identification of Australian carrion-breeding blowflies <b>James Wallman</b>
10.30-11.00	<b>REFRESHMENTS - Student Union</b>		
11.00-12.30	<b>SYMPOSIUM - The Genetics of Biological Invasions</b> <i>Steele Building Room 206</i> (Chair: George Roderick)	<b>CONTRIBUTED PAPERS - African Diptera: Biogeography and Gondwanaland</b> <i>Steele Building Room 309</i> Chair: Ashley Kirk-Spriggs)	<b>WORKSHOP - Biology of Calliphoridae and Sarcophagidae</b> <i>Steele Building Room 324</i> (Chair: James Wallman)
	Medfly ( <i>Ceratitis capitata</i> ) bioinvasions of California <b>Giulliano Gasperi</b>  Inferring the source of outbreak populations of Queensland fruit fly <b>Stuart Gilchrist</b>  Diptera invasions in South Pacific islands: consequences for public health <b>Neil Davies</b>  Are flies model insect invaders? Genetics, ecology, behavior, and adaptation <b>George Roderick</b>	The present state of taxonomy and biogeography of the Heleomyzidae and Trixoscelididae in the Afrotropical Region. <b>A.J. Woznica</b> (Presented by Ashley Kirk-Spriggs)  Zoogeographical distribution of Afrotropical species of <i>Atherigona</i> Rondani (Diptera: Muscidae) <b>Michael Chidoze Dike</b>  Southern African Empidoidea (Diptera): phylogenetic patterns and biogeographic implications <b>Bradley Sinclair</b>  African Mythicomysiidae (Diptera) - biogeographic Implications of a	<i>Sarcophaga megafilosia</i> and <i>S. meiofilosia</i> : flesh fly parasitoids of marine snails in Central Queensland mangroves <b>Thomas Pape</b>  The joint post feeding radial larval dispersal in flies of genus <i>Chrysomya</i> : weight, depth and distance for pupation <b>Leonardo Gomes</b>

		diverse group of flies <b>Neal Evenhuis</b>	
12.30-1.30	<b>LUNCH - Student Union</b>		
1.30-3.00	<p><b>CONTRIBUTED PAPERS - Phylogeny of Cyclorrhapha Steel Building Room 206 (Chair: Christine Lambkin)</b></p> <p>The main clades of the Sphaeroceridae (Diptera) <b>Natalia Kuznetzova</b></p> <p>Stirring the classification of Sphaeroceroidea or Heteromyzoidea <b>David McAlpine</b></p> <p>Relationships and limits of the Pyrgotidae (Diptera: Schizophora: Tephritoidea) <b>Valery Korneyev</b></p> <p>Aiming for a phylogenetic classification of the Lauxanioidea <b>Stephen Gaimari</b></p> <p>Towards a phylogenetic classification of Syrphidae (Diptera) <b>Sergey Kuznetzov</b></p>	<p><b>CONTRIBUTED PAPERS - Systematics of Lower Diptera Steel Building Room 309 (Chair: Greg Courtney)</b></p> <p>A re-examination of the 'Chaoboriform' genera (Diptera: Chaoboridae) using larval morphological characters <b>Joshua Ogawa</b></p> <p>The position of the subfamily Bruchomyiinae in the family Psychodidae <b>Ruediger Wagner</b></p> <p>Austrochironomus, a subgenus of <i>Chironomus</i> Meigen (Diptera: Chironomidae) <b>Masaru Yamamoto</b></p> <p>Towards a phylogeny of <i>Tanytarsus</i> van der Wulp. Is morphology alone sufficient to reconstruct the genealogical relationships between species in Chironomidae? <b>Torbjorn Ekrem</b></p> <p>Revision of <i>Wyeomyia</i> (<i>Hystatomyia</i>) Dyar &amp; Knab (Diptera: Culicidae) <b>Jessica Adkins</b></p>	<p><b>WORKSHOP - Empidoidea Steel Building Room 324 (Marc Pollett)</b></p> <p>Dolichopodidae in the canopy of lowland primary rainforest on the north coast of Papua New Guinea <b>Patrick Grootaert</b></p> <p>Species groups within the genus <i>Hilara</i> (Empididae) in New Zealand <b>Ian Andrew</b></p> <p>The ultrastructure and function of the silk-producing basitarsus in the <i>Hilarini</i> (Diptera: Empididae) <b>James Young</b></p> <p>A new species of <i>Nemedina</i> Chandler from mid-Asia (Diptera: Empidoidea) resolves the phylogenetic position of this enigmatic genus <b>Bradley Sinclair</b></p> <p>Systematics of Nearctic <i>Platypalpus</i> Macquart (Empidoidea: Tachydromiinae) <b>Jeffrey Cumming</b></p>
3.00-3.30	<b>REFRESHMENTS - Student Union</b>		
3.30-5.00	<p><b>CONTRIBUTED PAPERS - Systematics of Eremoneura Steel Building Room 206 (Chair: Margaret Schneider)</b></p> <p>Recent advances in the study of the Asteiidae <b>Amnon Freidberg</b></p> <p>A new look at the Milichiidae, and a revision of <i>Litometopa</i> Sabrosky (Diptera, Schizophora) <b>Irina Brake</b></p> <p>Cladistic analysis of the genus <i>Ceratitis</i> MacLeay (Diptera, Tephritidae) <b>Marc De Meyer</b></p> <p>A revision of <i>Asilostoma</i> Hendel, 1925 (Diptera, Lauxaniidae) <b>Vera Cristina Silva</b></p> <p>Taxonomic revision of the Afrotropical species of the Eudorylini (Diptera: Pipunculidae) with discussion on special male genital characters <b>Mihaly Foldvari</b></p>	<p><b>CONTRIBUTED PAPERS - General Medical and Veterinary Entomology Steel Building Room 309 (Chair: Marlene Elson-Harris)</b></p> <p>Biology and ecology of sand flies in new Z.C.L. foci in Semnan province, Iran <b>Hadi Vatani</b></p> <p>New World screwworm sex pheromone: isolation and synthesis <b>David Carlson</b></p> <p>Risk-spreading larviposition behaviour of nasopharyngeal <i>Cephenemyia</i> (Diptera: Oestridae) parasites of deer <b>John Anderson</b></p> <p>Host specific oestrids of deer repelled by non-host odours <b>John Anderson</b></p> <p>Ecology of sandflies in the main central foci of zoonotic cutaneous leishmaniasis of Iran <b>Yaghoobi-Ershadi</b></p>	<p><b>WORKSHOP - Empidoidea Steel Building Room 309 (Chair: Marc Pollett)</b></p> <p>Phylogenetic relationships within the Empidinae (Empididae) <b>Christophé Daugeron</b></p> <p>The world fauna of <i>Rhamphomyia</i> (<i>Megacyttarus</i>) <b>Miroslav Bartak</b></p> <p>Preliminary results of a revision of the Neotropical Neurigoninae (Dolichopodidae) <b>Stefan Naglis</b></p> <p>Cladistic relationships of the subfamily Dolichopodinae <b>Scott Brooks</b></p> <p>An overview of recent ecological research on</p>



	New concepts of Conopinae (Diptera: Conopidae) <b>Margaret Schneider</b>	Biological and natural control of African schistosomiasis host snails by predatory sciomyzid fly larvae <b>Ray Miller</b>  Studies on the anti-bloodsucking measure against <i>Hirosia iyoensis</i> (Tabanidae) by tracking methods <b>Mamoru Watanabe</b>	Dolichopodidae in Flanders (Belgium) <b>Marc Pollet</b>
<b>CONFERENCE DINNER ON RIVER QUEEN</b> <b>Coaches Depart Kings College at 6.15pm      Coaches Depart River Queen at 10.30pm</b>			

Time	FRIDAY 4 OCTOBER	
8.10-8.50	<b>PLENARY SPEAKER</b> - Steele Building Room 206 Mosquito-borne disease in Australia - an increasing concern? <b>Richard Russell, University of Sydney (Chair: Scott O'Neill)</b>	
09.00-10.30	<b>CONTRIBUTED PAPERS - Medical and Veterinary Entomology: Mosquitoes</b> <b>Steele Building Room 206</b> <b>(Chair: Des Foley)</b>	<b>SYMPOSIUM - Cataloguing and Databasing</b> <b>Steele Building Room 309</b> <b>(Chair: Thomas Pape)</b>
	<p>Molecular identification of <i>Anopheles</i> and <i>Culex</i> mosquitoes <b>Cathy Walton</b></p> <p>Mosquito control in Brisbane City <b>Mike Muller</b></p> <p>Induced immunity against haemolymph proteins of <i>Anopheles stephensi</i>: effects on fecundity of mosquito and transmission blocking of malaria parasites <b>Surendra Gakhar</b></p> <p>Insights into the population structure of the southwest Pacific malaria vector <i>Anopheles farauti</i> 2 (Diptera: Culicidae) by following ribosomal DNA spacer polymorphisms <b>Nigel Beebe</b></p> <p>Molecular characterisation and species distribution of the <i>Anopheles maculipennis</i> complex in Iran <b>Mehdi Sedaghat</b></p> <p>Effects of three plant extracts on eggs and larval development of <i>Culex pipiens</i> L. <b>Ahmed Zaitoun</b></p>	<p><b>Keynote Address</b> Diptera: Discovery and Dissemination in a Digital Domain (D5) <b>Chris Thompson</b></p> <p>Embracing specimen-level databases: expectations and anxieties! <b>Michael Irwin</b></p> <p>Meeting the interrelated challenges of specimen, nomenclature, and literature tracking with Mandala <b>Gail Kampmeier</b></p>
10.30-11.00	<b>REFRESHMENTS - Student Union</b>	
11.00-12.30	<b>CONTRIBUTED PAPERS - Medical and Veterinary Entomology: Mosquitoes (continued)</b> <b>(Chair: Des Foley)</b> and <b>CONTRIBUTED PAPERS - Forensic Entomology</b> <b>(Chair: Ian Dadour)</b> <b>Steele Building room 206</b>	<b>SYMPOSIUM - Cataloguing and Databasing</b> <b>Steele Building Room 309</b> <b>(Chair: Thomas Pape)</b>
	<p>Botanical management of filarial vector, <i>Culex quinquefasciatus</i> Say <b>Kadarkarai Murugan</b></p> <p>Evaluation of the effect of exposure to tannic acid and the entomopathogenic fungus <i>Beauveria bassiana</i> on the ecological competence of <i>Anopheles stephensi</i> <b>Mohammad Saaid Dayer</b></p> <p style="text-align: center;"><b>10 minute break before start of next session</b></p> <p style="text-align: center;"><b>CONTRIBUTED PAPERS - Forensic Entomology</b></p> <p>A preliminary survey of forensically important Diptera in Victoria, Australia <b>Melanie Archer</b></p>	<p>Collection management and databasing at the Entomology Department of INBio, Costa Rica. <b>Manuel Zumbado</b></p> <p>Mining the Dipteran genome: tools and resources from GenBank/EMBL and NCBI <b>Brian Wiegmann</b></p> <p>Fauna Europaea - the Diptera component <b>Thomas Pape</b></p> <p>Databasing European Dolichopodidae (Diptera) in the frame of Fauna Europaea <b>Marc Pollet</b></p>

	<p>Morphological and molecular identification of forensically important blow fly species (Diptera: Calliphoridae) from Taiwan <b>Shiuh-Feng Shiao</b></p> <p>Blowflies associated with pig carcasses exposed in different environments and altitudes in Southeastern Brazil. <b>Aricio Linhares</b></p> <p>The humble maggot in the 21st Century, a compendium of information <b>Ian Dadour</b></p>	<p>Asilidae database - content, structure and accessibility <b>Torsten Dikow</b></p> <p>A World catalogue of Pallopteridae (Diptera) <b>Bernhard Merz</b></p> <p>Catalogue of the Craneflies of the World with a note on the work by C.P. Alexander (author of 11559 crane fly names) <b>Pjotr Oosterbroek</b></p>
12.45-1.15	<b>CLOSING CEREMONY, AWARDING OF PRIZES AND INVITATION TO NEXT CONGRESS</b>	
1.15-2.15	<b>LUNCH - <i>Student Union</i></b>	

***Information Disclaimer: The speakers, topics and times are correct at the time of publishing. In the event of unforeseen circumstances, the organisers reserve the right to alter or delete items from the Congress Program***

# 5th International Congress of Dipterology Provisional Program

[Sunday 29 September](#) | [Monday 30 September](#) | [Tuesday 1 October](#) | [Wednesday 2 October](#) | [Thursday 3 October](#) | [Friday 4 October](#)

Time	SUNDAY 29 SEPTEMBER
	<b>4.00pm - REGISTRATION</b>
	<b>5.00pm - 7.00pm - WELCOME DRINKS - <i>Student Union Heath/Holt Rooms</i></b> <b>6pm Welcome Address by David Yeates "Blowies, Mossies and the Great Aussie Salute"</b>

Time	MONDAY 30 SEPTEMBER				
8.00 -	REGISTRATION				
9.00-9.30	<b>WELCOME and OPENING ADDRESS - <i>Steele Building Room 206</i></b> Welcome by David Yeates (Chair) Welcome to University of Queensland by Professor David Siddle (Deputy Vice-Chancellor (Research), University of Queensland) Geoff Garrett (CEO, CSIRO)				
9.30-10.30	<b>SYMPOSIUM - The Influence of Modern Innovations on Systematic Inquiry, with Emphasis on Diptera (Chair: Mike Irwin)</b> The influence of modern innovations on systematic inquiry, with emphasis on Diptera <b>Michael Irwin</b> Phylogenetic assessment: the advent of the Hennigian Philosophy <b>Rudolf Meier</b> Molecular biology: a set of new characters for phylogenetic assessment <b>Brian Wiegmann</b> Modern innovations in systematic inquiry <b>Christine Lambkin</b>				
10.30-11.00	<b>REFRESHMENTS - <i>Student Union</i></b>				
11.00-12.30	Bioinformatics and the manipulation of biological information <b>Jim Croft</b> Web-based description and identification - what tools do we need? <b>Kevin Thiele</b> Geographical information systems: the spatial patterning of life <b>David Peters</b> Interpreting the fossil record of Diptera: the temporal patterning of life <b>David Grimaldi</b> Interpreting spatio-temporal patterns among select clades of Diptera <b>Evert Schlinger</b> The urgency to make all life known <b>Ian Cresswell</b>				
12.30-1.30	<b>LUNCH - <i>Student Union</i></b>				
1.30-3.00	<table border="1"> <tbody> <tr> <td> <b>SYMPOSIUM - The Influence of Modern Innovations on Systematic Inquiry with Emphasis on Diptera (continued) (Chair: Mike Irwin)</b> and <b>SYMPOSIUM - Diptera in Biodiversity and Conservation 1 (Chair: Rudolf Meier)</b> <b><i>Steele Building Room 206</i></b> </td> <td> <b>WORKSHOP - Hornfly Management and Resistance</b> <b><i>Steele Building Room 309</i></b> <b>(Chair: Lane Foil)</b> </td> </tr> <tr> <td>Diptera: a lot of flies yet to be discovered <b>Chris Thompson</b></td> <td>An overview of Horn Fly (Diptera: Muscidae) resistance surveys and research programs in the United States <b>Fred Knapp</b></td> </tr> </tbody> </table>	<b>SYMPOSIUM - The Influence of Modern Innovations on Systematic Inquiry with Emphasis on Diptera (continued) (Chair: Mike Irwin)</b> and <b>SYMPOSIUM - Diptera in Biodiversity and Conservation 1 (Chair: Rudolf Meier)</b> <b><i>Steele Building Room 206</i></b>	<b>WORKSHOP - Hornfly Management and Resistance</b> <b><i>Steele Building Room 309</i></b> <b>(Chair: Lane Foil)</b>	Diptera: a lot of flies yet to be discovered <b>Chris Thompson</b>	An overview of Horn Fly (Diptera: Muscidae) resistance surveys and research programs in the United States <b>Fred Knapp</b>
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Diptera: a lot of flies yet to be discovered <b>Chris Thompson</b>	An overview of Horn Fly (Diptera: Muscidae) resistance surveys and research programs in the United States <b>Fred Knapp</b>				

	<p>Discovering and managing the patterns of life - from RAM to rammed earth: a perspective from UNESCO <b>Ian Cresswell</b></p> <p>Concluding remarks, questions and discussion: Panel of Speakers <b>David Yeates</b></p> <p><b>2.15pm SYMPOSIUM - Diptera in Biodiversity and Conservation 1</b></p> <p>Guild analyses in the study of dipteran biodiversity; a rationale and critique <b>Roger Kitching</b></p> <p>Diptera diversity on tree trunks <b>Daniel Bickel</b></p> <p>Australian glowworms (Diptera: Keroplatidae: <i>Arachnocampa</i> Spp.): identity, diversity, and management <b>Claire Baker</b></p>	<p>Field surveys of insecticide resistance in Australian buffalo fly <i>Haematobia irritans exigua</i> De Meijere (Diptera: Muscidae) <b>Bill Farnsworth</b></p> <p>A summary of studies on the economic impact of horn flies <b>Jerry Hogsette</b></p> <p>Management and resistance of horn fly and buffalo fly: diagnostic techniques for metabolic resistance <b>John Pruett</b></p> <p>Management and resistance of horn fly and buffalo fly: diagnostic techniques for target site resistance <b>Felix Guerrero</b></p> <p>Movement of horn flies among cattle herds <b>Ronnie Byford</b></p>	
3.00-3.30	<b>REFRESHMENTS - Student Union</b>		
3.30-5.00	<p><b>SYMPOSIUM - Diptera in Biodiversity and Conservation 2</b> <b>Steele Building Room 206</b> <b>(Chair: Dan Bickel)</b></p> <p>Antler flies (Phytalmia, Tephritidae) are fascinating, but not bioindicators <b>Gary Dodson</b></p> <p>Sedges, mud and myriads of flies: the brachyceran fauna of sedge meadows in southern Canada <b>Frederic Beaulieu</b></p> <p>Chironomid communities (Diptera, Chironomidae) in cold alpine springs. Prospect for a long-term biomonitoring <b>Elisabeth Stur</b></p> <p>The dipteran fauna of a Central European mountain stream <b>Ruediger Wagner</b></p> <p>The method of the evaluation of antropogenic changes in the environment by means of the family Chloropidae (Diptera). <b>Stepan Kubik</b></p> <p>Habitat modification and dipteran biodiversity in central New Zealand <b>Ian Andrew</b></p> <p>Biodiversity patterns in Neotropical dolichopodid faunas (Diptera: Dolichopodidae) <b>Marc Pollet</b></p> <p>Status and geographical distribution of three endangered Karelian keroplatids (Diptera: Keroplatidae) <b>Dimitri Bartenev</b></p>	<p><b>WORKSHOP - Hornfly Management and Resistance</b> <b>Steele Building Room 309</b> <b>(Chair: Lane Foil)</b></p> <p>Behaviour-modifying systems for the control of buffalo fly, <i>Haematobia irritans exigua</i> de Meijere (Diptera: Muscidae) <b>Rudolf Urech</b></p> <p>Control of the horn fly and buffalo fly - past, present and future chemistries and strategies <b>John Riner</b></p> <p>The use of endectocides for horn fly control <b>James Hawkins</b></p> <p>Strategies for managing horn fly, <i>Haematobia irritans</i>, resistance <b>Lane Foil</b></p>	<p><b>WORKSHOP - Sciomyzidae</b> <b>Steele Building Room 324</b> <b>(Chair: Lloyd Knutson)</b></p> <p>The struggle over reconstructing the phylogenetic relationships of the Sciomyzoidea (Diptera) <b>Rudolf Meier</b></p> <p>Morphodiversity and biodiversity in <i>Sepedon</i> Latreille and related genera: a lineage, a tribe, or a subfamily? (Diptera: Sciomyzidae) <b>Lloyd Knutson</b></p> <p><i>Sepedon knutsoni</i>, a second oligochaete feeding sciomyzid from Africa <b>Jean-Claude Vala</b></p> <p>Predation and trail-following behaviour in selected marsh fly species (Diptera: Sciomyzidae) <b>Rory Mc Donnell</b></p>
5.00 -	<b>HAPPY HOUR / POSTER VIEWING - POSTER AUTHORS TO BE PRESENT</b> <i>Student Union Heath/Holt Rooms</i> FREE EVENING		

Time	TUESDAY 1 OCTOBER		
8.00 -	REGISTRATION		
8.10-8.50	<b>PLENARY SPEAKER - Steele Building Room 206</b> Phylogenetic relationships of nematocerous Diptera: synopsis of recent hypotheses <a href="#">Greg Courtney, Iowa State University</a> (Chair: <b>Monty Wood</b> )		
9.00-10.30	<b>SYMPOSIUM - Multiple Data Set Analyses for Dipteran Phylogenetics</b> <b>Steele Building Room 206</b> <b>(Chair: Brian Wiegmann)</b>	<b>SYMPOSIUM - Sperm Olympics: Sperm Competiton, Cryptic Female Choice and Mating Behaviour in Diptera</b> <b>Steele Building Room 309</b> <b>(Chair: Marion Kotrba)</b>	<b>WORKSHOP - Muscidae, Anthomyiidae</b> <b>Steele Building Room 324</b> <b>(Chair: Adrian Pont)</b>
	<p>A genomic approach to phylogenetics: multiple gene systematics of the Drosophilidae <b>Patrick O'Grady</b></p> <p>Significant incongruence can be informative: insights from partitioned support analyses <b>Christine Lambkin</b></p> <p>Genes, fossils and morphology: combined data analysis and a revised time scale for higher-level phylogeny of the Brachycera <b>Brian Wiegmann</b></p> <p>Molecular and morphological evidence supporting relationships within Eremoneura: focus on Cyclorrhapha <b>Jeff Skevington</b></p> <p>Multiple data sets in addressing complex evolutionary questions within Diptera: case studies within Empidoidea and Simuliidae <b>John Moulton</b></p> <p>In search of an outgroup for the Tanyderidae (Diptera): conflict or congruence? <b>Darlene Judd</b></p>	<p>The female reproductive tract in Diptera I: an introduction <b>Marion Kotrba</b></p> <p>The female reproductive tract in Diptera II: morphological diversity and details of the female reproductive tract in acalyptrate Schizophora <b>Marion Kotrba</b></p> <p>Female remating, operational sex ratio, and the arena of sexual selection <b>Therese Markow</b></p> <p>The labyrinth explored: female sperm storage organs, related structures, and sperm storage patterns in the tephritid fly, <i>Anastrepha suspensa</i>. <b>Ann Fritz</b></p> <p>Female remating, sperm displacement, remating speed, fertility, <i>Drosophila ananassae</i> <b>Shree Ram Singh</b></p> <p>Non-antagonistic reproductive interactions between the sexes: offsetting the load of sexual conflict <b>Lacey Knowles</b></p>	<p>Diversity and taxonomy of catkin flies (Egle, Anthomyiidae) <b>Graham Griffiths</b></p> <p>The plumosa group of Hydrophoria (Anthomyiidae) <b>Masaaki Suwa</b></p> <p>A cladistic analysis of the Muscidae: first results - and problems <b>Adrian Pont</b></p> <p>Muscidae (Diptera) of the Neotropical Region: taxonomy of the basal groups <b>Claudio Carvalho</b></p> <p>Muscidae (Diptera) of the Neotropical Region - taxonomy of the apical groups <b>Mrcia Couri</b></p> <p>A molecular phylogeny of the <i>Stomoxys</i> group based on cytochrome oxidase I. (Presented by Adrian Pont) <b>Rosanna Giordano</b></p>
10.30-11.00	<b>REFRESHMENTS - Student Union</b>		
11.00-12.30	<b>SYMPOSIUM - Multiple Data Set Analyses for Dipteran Phylogenetics (continued)</b> <b>(Chair: Brian Wiegmann)</b> and <b>SYMPOSIUM - Diptera in Biodiversity and Conservation 3</b> <b>(Chair: Rudolf Meier)</b> <b>Steele Building Room 206</b>	<b>WORKSHOP - Muscidae, Anthomyiidae</b> <b>Steele Building Room 324</b> <b>(Chair: Adrian Pont)</b>	
	<p>Multiple data sets and syrphid phylogenetics <b>Gunilla Stahls-Makela</b></p> <p>Phylogeny of Syrphinae (Diptera, Syrphidae) on the basis of morphological and molecular characters <b>Heikki Hippa</b></p>	<p>Phylogeny of the genus <i>Thricops</i> Rondani (Diptera: Muscidae) based on molecular and morphological evidence. <b>Jade Savage</b></p> <p>Distributional pattern of Muscidae in the Neotropical Region - a preliminary approach <b>Claudio Carvalho</b></p>	

	<p>Combining molecular and morphological data for Sepsidae, Coelopidae, and Diopsidae: More conflict than congruence <b>Rudolf Meier</b></p> <p>Phylogeny of the small headed-flies (Diptera: Acroceridae) using multiple molecular markers <b>Shaun Winterton</b></p> <p><b>15 minute break before start of next session</b></p> <p><b>SYMPOSIUM - Diptera in Biodiversity and Conservation 3</b></p> <p>An estimate of dipteran species- richness in Australia <b>David Yeates</b></p>	<p>Comparison of the cuticular hydrocarbons of 7 <i>Musca</i> spp. worldwide (Diptera: Muscidae) <b>David Carlson</b></p>	
12.30-1.30	<b>LUNCH - Student Union</b>		
1.30-3.00	<p><b>SYMPOSIUM - Diptera in Biodiversity and Conservation 3</b> <b>Steele Building Room 206</b> <b>(Chair: Rudolf Meier)</b></p>	<p><b>WORKSHOP - Management of Tephritidae</b> <b>Steele Building room 309</b> <b>(Chair: Dick Drew)</b></p>	<p><b>WORKSHOP - Systematics and Ecology of Oestroidea + Hippoboscoidea</b> <b>Steele Building Room 324</b> <b>(Chair: James O'Hara)</b></p>
	<p>Nearctic Diptera: what we know and what we do not <b>Chris Thompson</b></p> <p>The Afrotropical Diptera - an overview <b>Brian Stuckenberg</b></p> <p>Neotropical Diptera biodiversity: an overview <b>Dalton De Souza Amorim</b></p> <p>Dipteran biodiversity of the Galapagos Islands (Ecuador) <b>Bradley Sinclair</b></p> <p>Hawaii as a Diptera biodiversity Hot Spot: a helluva lot of halteres in the Hawaiian Islands <b>Neal Evenhuis</b></p> <p>New Zealand Diptera: diversity and scope for further studies <b>Rod Macfarlane</b></p>	<p>Antlered Flies (Tephritidae: <i>Phytalmia</i>) of New Guinea and Australia <b>Gary Dodson</b></p> <p>Sexual selection in a tropical fruit fly: role of a plant derived chemical in mate choice <b>S Raghu</b></p> <p>Geographical distribution and seasonal abundance of pest fruit flies in Papua New Guinea <b>David Putulan</b></p> <p>Polytene chromosome analysis, esterase isozyme and Larval Serum Protein (LSP) banding patterns in the melon fly <i>Bactrocera cucurbitae</i> Coq. (Diptera: Tephritidae) with reference to irradiation treatment <b>Farzana Yesmin</b></p>	<p>Advances in the phylogenetics of the Tachininae (Tachinidae) <b>James O'Hara</b></p> <p>A review of New World Zaira Robineau-Desvoidy (Diptera; Tachinidae; Blondeliini) <b>Dan Hansen</b></p> <p>Louse-flies (Diptera: Hippoboscidae) in the Central Black Soil Region of Russia <b>Sergey Gaponov</b></p>
3.00-3.30	<b>REFRESHMENTS - Student Union</b>		
3.30-5.00	<p><b>SYMPOSIUM - Diptera in Biodiversity and Conservation 4</b> <b>Steele Building Room 206</b> <b>(Chair: Dan Bickel)</b></p>	<p><b>WORKSHOP - Agromyzidae</b> <b>Steele Building Room 309</b> <b>(Chair: David Henshaw)</b></p>	
	<p>Assessing species richness of Diptera using museum collections <b>Frederik Petersen</b></p> <p>Extrapolating from the observed species richness in a revision to its 'true' species diversity. A case study using <i>Euscelidia</i> (Asilidae: Diptera) <b>Torsten Dikow</b></p> <p>Spectacular diversity in <i>Cladochaeta</i> (Drosophilidae): anomalous or typical for Neotropical acalyptrate flies? <b>David Grimaldi</b></p>	<p><b>Tribute to Kenneth Spencer</b></p> <p>The phylogeny of Agromyzidae inferred from morphological characters <b>Martin Dempewolf</b></p> <p>Mine density, parasitism and emergence of the leafminers, <i>Liriomyza cicerina</i> (Rondani) and <i>Liriomyza bryoniae</i> (Kalt.) (Diptera: Agromyzidae), and parasitoids on broad beans in Egypt. <b>Samir El-Serwy</b></p>	

	<p>Why are there so many genera of Chloropidae? <b>Terry Wheeler</b></p> <p>The diversity of neotropical Micropezidae <b>Steve Marshall</b></p> <p>Biodiversity studies of Namibian Diptera - a developing country approach <b>Ashley Kirk-Spriggs</b></p>	<p>Seasonal fluctuations of the wheat leafminer, <i>Agromyza nigrella</i> (Rondani) (Diptera: Agromyzidae), and parasitism in Lower and Middle Egypt. <b>Samir El- Serwy</b></p> <p>Revision of nearctic species of Cerodontha (Cerodontha) (Diptera: Agromyzidae) with additional notes on other subgenera <b>Stephanie Boucher</b></p> <p>A CD-ROM on Agromyzidae of economic significance <b>Martin Dempewolf</b></p> <p>Feeding habits and the so called phytophagy of Chloropidae (Diptera) <b>Michael von Tschirnhaus</b></p>
7.00	<b>DINNER AT AUSTRALIAN WOOLSHED Coaches depart from Kings College 6.15pm Coaches depart Woolshed at 10.30pm</b>	

Time	WEDNESDAY 2 OCTOBER	
8.10-8.50	<b>PLENARY SPEAKER - Steele Building Room 206</b> The fossil history of associations between the Diptera and other organisms <a href="#">Conrad Labandeira</a> , <b>Smithsonian Institution (Chair: Brian Stuckenberg)</b>	
09.00-10.30	<p><b>CONTRIBUTED PAPERS - Fossils and Biogeography</b> (Chair: <a href="#">Conrad Labandeira</a>) and <b>CONTRIBUTED PAPERS - Evolution and Biology</b> (Chair: <a href="#">Gary Taylor</a>) <b>Steele Building Room 206</b></p>	<p><b>CONTRIBUTED PAPERS - Behaviour and Physiology</b> <b>Steele Building Room 309</b> (Chair: <a href="#">Gary Dodson</a>)</p>
	<p>Origin of main evolutionary lineages of the Diptera - fossil evidences <b>Wieslaw Krzeminski</b></p> <p>How recent are the Empidoidea of Baltic amber? <b>Hans Ulrich</b></p> <p>Amphipacific disjunctions in net-winged midges (Diptera: Blephariceridae) <b>Peter Zwick</b></p> <p><b>15 Minute break before start of next session</b></p> <p><b>CONTRIBUTED PAPERS - Evolution and Biology</b></p> <p>The Fergusoninidae: co-evolution between gall-flies, nematodes and their myrtaceous hosts. <b>Gary Taylor</b></p> <p>New Zealand robber flies: phenology and biogeography <b>Rod Macfarlane</b></p>	<p>Regulation of bioluminescence in Australian glow-worms <b>David Merritt</b></p> <p>Chemical cues regulate oviposition site selection in the midge <i>Chironomus tepperi</i> Skuse (Chironomidae) <b>Mark Stevens</b></p> <p>Different female ovipositing strategies in tephritid species of the family Tephritidae (Diptera) in <i>Centaurea scabiosa</i> (Asteraceae) - central Europe <b>Judita Kinkorova</b></p> <p>Flies that attack polymorphic snails on coloured backgrounds: selection for crypsis by a sarcophagid parasitoid of the marine snail <i>Littoraria filosa</i> <b>Steve McKillup</b></p>
10.30-11.00	<b>REFRESHMENTS - Student Union</b>	
11.00-12.30	<p><b>CONTRIBUTED PAPERS - Evolution and Biology</b> <b>Steele Building Room 206</b> (Chair: <a href="#">Gary Taylor</a>)</p>	<p><b>WORKSHOP - Cecidomyiidae</b> <b>Steele Building Room 309</b> (Chair: <a href="#">Junichi Yukawa</a>)</p>
	<p>Evolution of the sclerotised plant-piercing oviscapt in <i>Thrypticus</i> (Diptera: Dolichopodidae) <b>Daniel Bickel</b></p> <p>Do Wolbachia infections obscure phylogeographic patterns of the European cherry fruit fly? <b>Markus</b></p>	<p>Facultative competition between two gall-midge species (Cecidomyiidae) on <i>Suaeda monoica</i> (Chenopodiaceae) <b>Netta Dorchin</b></p> <p>Synchronization of gall midge emergence with host plant phenology <b>Junichi Yukawa</b></p>

	<p><b>Riegler</b></p> <p>Fly pollination and plant breeding systems: are flies good pollinators? <b>Chris Borkent</b></p> <p>On the natural history and all life-history stages of the only European stalk-eyed fly, <i>Sphyracephala europaea</i> (Diopsidae: Diptera). <b>Mihaly Foldvari</b></p> <p>The immature stages of soldier-flies (Diptera, Stratiomyidae) in South America - new reports and biodiversity <b>Jose Roberto Pujol Luz</b></p> <p>Sex, flies and videotape: pollination and sexual deception in the Australian terrestrial orchid <i>Pterostylis</i> <b>Joanna Hamilton</b></p> <p>Understanding the evolution of insect: microbe associations using <i>Drosophila melangaster</i> whole genome microarrays <b>Elizabeth McGraw</b></p>	<p>The gall midges (Cecidomyiidae) of <i>Carya</i> (Juglandaceae) in the Nearctic Region <b>Raymond Gagne</b></p> <p>Pupal characteristics of the Japanese <i>Asphondylia</i> gall midges (Diptera: Cecidomyiidae) and their species identification by DNA sequencing <b>Nami Uechi</b></p> <p>Morphology and a preliminary phylogenetic analysis of immatures of Neotropical <i>Asphondyliini</i> genera (Diptera: Cecidomyiidae) <b>Dalton De Souza Amorim</b></p> <p>Inter- and intraspecific comparison among <i>Asteralobia</i> gall midges (Diptera: Cecidomyiidae) on <i>Ilex</i> species (Aquifoliaceae): sympatric vs. allopatric speciation <b>Makoto Tokuda</b></p> <p>Zoophagous gall midges of the Italian fauna (Diptera: Cecidomyiidae) <b>Mario Solinas</b></p>
12.30-1.30	<b>LUNCH - Student Union</b>	
1.30-3.00	<p><b>SYMPOSIUM - Digital Diptera: Fly Identification in the New Millennium</b> <b>Steele Building Room 206</b> <b>(Chair: Steve Marshall)</b></p> <p>Fly identification: crisis, revolution or evolution? <b>Steve Marshall</b></p> <p>An interactive key to fly families: from Australia to the world! <b>David Yeates</b></p> <p>Simplified digital photography for museum work <b>Stephen Gaimari</b></p> <p>Identification: some basics and their implications for digital solutions <b>Chris Thompson</b></p> <p>DORSALIS - an interactive key to fruit flies of the <i>Bactrocera</i> (<i>Bactrocera</i>) <i>dorsalis</i> complex <b>Amy Lawson</b></p> <p>Identification of flies (Diptera) and other insects by general audiences using digital technologies: unlimited access to illustrations <b>Riley Nelson</b></p>	<p><b>CONTRIBUTED PAPERS - Systematics of Simuliidae</b> <b>Steele Building Room 309</b> <b>(Chair: Sixto Coscarón)</b></p> <p>Do the Neotropical <i>Simulium</i> subgenera constitute a monophyletic taxon? <b>Daniel Rafael Miranda-Esquivel</b></p> <p>A cladistic definition of <i>Simulium</i> (<i>Ectemnaspis</i>) and <i>S. (Psilopelmia)</i> subgenera (Diptera: Simuliidae) <b>Sixto Coscarón</b></p> <p>Systematics of black flies (Diptera: Simuliidae) in Thailand <b>Suwannee Phayusasena</b></p> <p>Taxonomic revision and cladistic analysis of <i>Simulium</i> (<i>Hearlea</i>) Vargas, Martínez Palacios &amp; Díaz Nájera (Diptera: Simuliidae) <b>Sixto Coscarón</b></p>
3.00-3.30	<b>REFRESHMENTS - Student Union</b>	
3.30-5.00	<p><b>CONTRIBUTED PAPERS - Phylogeny of Lower Diptera and Lower Brachycera</b> <b>Steele Building Room 206 (Chair: Brad Sinclair)</b></p> <p>From polyphyly to biogeography of Thereva (Asiloidea: Therevidae) <b>Kevin Holston</b></p> <p>New molecular and morphological evidence for the phylogenetic placement of <i>Phycini</i> and <i>Xestomyzini</i> (Diptera, Therevidae) <b>Martin Hauser</b></p> <p>The Exoprosopini, Australia and the world: revelations from systematic studies <b>Christine Lambkin</b></p> <p>A phylogenetic analysis of Bibionidae <b>Scott Fitzgerald</b></p> <p>The main clades of Sciaridae (Diptera) <b>Pekka Vilkkamaa</b></p>	
5.00-6.00	<b>OPEN COUNCIL MEETING Steele Building Room 206</b>	
6.00-7.00	<b>HAPPY HOUR - FREE EVENING</b>	

Time

THURSDAY 3 OCTOBER



8.10-8.50	<b>PLENARY SPEAKER</b> - <i>Steele Building Room 206</i> The Evolution of Segmentation and Body Patterning <a href="#">Nipan Patel</a> , <i>University of Chicago</i> (Chair: Brad Sinclair)		
9.00-10.30	<b>WORKSHOP - Development</b> (Chair: David Merritt) and <b>SYMPOSIUM - The Genetics of Biological Invasions</b> (Chair George Roderick) <i>Steele Building Room 206</i>	<b>CONTRIBUTED PAPERS - African Diptera: Biogeography and Gondwanaland</b> <i>Steele Building 309</i> (Chair: Ashley Kirk-Spriggs)	<b>WORKSHOP - Biology of Calliphoridae and Sarcophagidae</b> <i>Steele Building Room 324</i> (Chair: James Wallman)
	Evolution of embryonic axis specification in Diptera <b>Urs Schmidt-Ott</b>  Influential Passengers: Inherited <i>Wolbachia</i> infections of insects <b>Scott O'Neill</b>  <b>10 Minute break before next Session</b>  <b>SYMPOSIUM - The Genetics of Biological Invasions</b>  Introduction <b>George Roderick</b>  Genetic tools for studying invasive Diptera <b>Andrew Bohonak</b>  Tracking the spread of the invasive horn and buffalo flies, <i>Haematobia irritans irritans</i> and <i>H. i. Exigua</i> , using cytochrome oxidase I and <i>Wolbachia</i> <b>Rosanna Giordano</b> (Presented by Adrian Pont)	The biogeographical relationships of the Acroceridae of Africa, Madagascar and South America <b>Evert Schlinger</b>  New insights into the palaeogeography and breakup of Gondwana, and some associated biogeographical topics <b>Brian Stuckenberg</b>  African biogeography patterns - an introduction <b>Ashley Kirk-Spriggs</b>  The distributional patterns for neotropical / afrotropical / australo-oriental <i>Simulium</i> Latreille (Diptera: Simuliidae) subgenera <b>Daniel Rafael Miranda-Esquivel</b>  Biogeography of Afrotropical Chironomidae (Diptera) <b>Torbjorn Ekrem</b>  The phylogenetic relationships of <i>Archaeochlus</i> Brundin, <i>Austrochlus</i> Cranston and <i>Afrochlus</i> Freeman (Diptera: Nematocera), basal chironomid genera with a Gondwanan connection <b>Jon Martin</b>	Phylogeny of Chrysomyine blow flies <b>Hiromu Kurahashi</b>  Biodiversity of sarcophagid, calliphorid and muscid flies (Diptera) of Sundarbans Biosphere Reserve, India <b>Bhanu Chandra Nandi</b>  The evolution of ectoparasitism in calliphorid blowflies <b>Jamie Stevens</b>  Flesh flies (Sarcophagidae) from southern Appalachian mountain summits: rare species, rare sites, and human encroachment <b>Greg Dahlem</b>  Molecular systematics and identification of Australian carrion-breeding blowflies <b>James Wallman</b>
10.30-11.00	<b>REFRESHMENTS - Student Union</b>		
11.00-12.30	<b>SYMPOSIUM - The Genetics of Biological Invasions</b> <i>Steele Building Room 206</i> (Chair: George Roderick)	<b>CONTRIBUTED PAPERS - African Diptera: Biogeography and Gondwanaland</b> <i>Steele Building Room 309</i> Chair: Ashley Kirk-Spriggs)	<b>WORKSHOP - Biology of Calliphoridae and Sarcophagidae</b> <i>Steele Building Room 324</i> (Chair: James Wallman)
	Medfly ( <i>Ceratitis capitata</i> ) bioinvasions of California <b>Giulliano Gasperi</b>  Inferring the source of outbreak populations of Queensland fruit fly <b>Stuart Gilchrist</b>  Diptera invasions in South Pacific islands: consequences for public health <b>Neil Davies</b>  Are flies model insect invaders? Genetics, ecology, behavior, and adaptation <b>George Roderick</b>	The present state of taxonomy and biogeography of the Heleomyzidae and Trixoscelididae in the Afrotropical Region. <b>A.J. Woznica</b> (Presented by Ashley Kirk-Spriggs)  Zoogeographical distribution of Afrotropical species of <i>Atherigona</i> Rondani (Diptera: Muscidae) <b>Michael Chidoze Dike</b>  Southern African Empidoidea (Diptera): phylogenetic patterns and biogeographic implications <b>Bradley Sinclair</b>  African Mythicomysiidae (Diptera) - biogeographic Implications of a	<i>Sarcophaga megafilosia</i> and <i>S. meiofilosia</i> : flesh fly parasitoids of marine snails in Central Queensland mangroves <b>Thomas Pape</b>  The joint post feeding radial larval dispersal in flies of genus <i>Chrysomya</i> : weight, depth and distance for pupation <b>Leonardo Gomes</b>

	diverse group of flies <b>Neal Evenhuis</b>		
12.30-1.30	<b>LUNCH - Student Union</b>		
1.30-3.00	<p><b>CONTRIBUTED PAPERS - Phylogeny of Cyclorrhapha Steel Building Room 206 (Chair: Christine Lambkin)</b></p> <p>The main clades of the Sphaeroceridae (Diptera) <b>Natalia Kuznetzova</b></p> <p>Stirring the classification of Sphaeroceroidea or Heteromyzoidea <b>David McAlpine</b></p> <p>Relationships and limits of the Pyrgotidae (Diptera: Schizophora: Tephritoidea) <b>Valery Korneyev</b></p> <p>Aiming for a phylogenetic classification of the Lauxanioidea <b>Stephen Gaimari</b></p> <p>Towards a phylogenetic classification of Syrphidae (Diptera) <b>Sergey Kuznetzov</b></p>	<p><b>CONTRIBUTED PAPERS - Systematics of Lower Diptera Steel Building Room 309 (Chair: Greg Courtney)</b></p> <p>A re-examination of the 'Chaoboriform' genera (Diptera: Chaoboridae) using larval morphological characters <b>Joshua Ogawa</b></p> <p>The position of the subfamily Bruchomyiinae in the family Psychodidae <b>Ruediger Wagner</b></p> <p>Austrochironomus, a subgenus of <i>Chironomus</i> Meigen (Diptera: Chironomidae) <b>Masaru Yamamoto</b></p> <p>Towards a phylogeny of <i>Tanytarsus</i> van der Wulp. Is morphology alone sufficient to reconstruct the genealogical relationships between species in Chironomidae? <b>Torbjorn Ekrem</b></p> <p>Revision of <i>Wyeomyia</i> (<i>Hystatomyia</i>) Dyar &amp; Knab (Diptera: Culicidae) <b>Jessica Adkins</b></p>	<p><b>WORKSHOP - Empidoidea Steel Building Room 324 (Marc Pollett)</b></p> <p>Dolichopodidae in the canopy of lowland primary rainforest on the north coast of Papua New Guinea <b>Patrick Grootaert</b></p> <p>Species groups within the genus <i>Hilara</i> (Empididae) in New Zealand <b>Ian Andrew</b></p> <p>The ultrastructure and function of the silk-producing basitarsus in the <i>Hilarini</i> (Diptera: Empididae) <b>James Young</b></p> <p>A new species of <i>Nemedina</i> Chandler from mid-Asia (Diptera: Empidoidea) resolves the phylogenetic position of this enigmatic genus <b>Bradley Sinclair</b></p> <p>Systematics of Nearctic <i>Platypalpus</i> Macquart (Empidoidea: Tachydromiinae) <b>Jeffrey Cumming</b></p>
3.00-3.30	<b>REFRESHMENTS - Student Union</b>		
3.30-5.00	<p><b>CONTRIBUTED PAPERS - Systematics of Eremoneura Steel Building Room 206 (Chair: Margaret Schneider)</b></p> <p>Recent advances in the study of the Asteiidae <b>Amnon Freidberg</b></p> <p>A new look at the Milichiidae, and a revision of <i>Litometopa</i> Sabrosky (Diptera, Schizophora) <b>Irina Brake</b></p> <p>Cladistic analysis of the genus <i>Ceratitis</i> MacLeay (Diptera, Tephritidae) <b>Marc De Meyer</b></p> <p>A revision of <i>Asilostoma</i> Hendel, 1925 (Diptera, Lauxaniidae) <b>Vera Cristina Silva</b></p> <p>Taxonomic revision of the Afrotropical species of the Eudorylini (Diptera: Pipunculidae) with discussion on special male genital characters <b>Mihaly Foldvari</b></p>	<p><b>CONTRIBUTED PAPERS - General Medical and Veterinary Entomology Steel Building Room 309 (Chair: Marlene Elson-Harris)</b></p> <p>Biology and ecology of sand flies in new Z.C.L. foci in Semnan province, Iran <b>Hadi Vatani</b></p> <p>New World screwworm sex pheromone: isolation and synthesis <b>David Carlson</b></p> <p>Risk-spreading larviposition behaviour of nasopharyngeal <i>Cephenemyia</i> (Diptera: Oestridae) parasites of deer <b>John Anderson</b></p> <p>Host specific oestrids of deer repelled by non-host odours <b>John Anderson</b></p> <p>Ecology of sandflies in the main central foci of zoonotic cutaneous leishmaniasis of Iran <b>Yaghoobi-Ershadi</b></p>	<p><b>WORKSHOP - Empidoidea Steel Building Room 309 (Chair: Marc Pollett)</b></p> <p>Phylogenetic relationships within the Empidinae (Empididae) <b>Christophé Daugeron</b></p> <p>The world fauna of <i>Rhamphomyia</i> (<i>Megacyttarus</i>) <b>Miroslav Bartak</b></p> <p>Preliminary results of a revision of the Neotropical Neurigoninae (Dolichopodidae) <b>Stefan Naglis</b></p> <p>Cladistic relationships of the subfamily Dolichopodinae <b>Scott Brooks</b></p> <p>An overview of recent ecological research on</p>

	New concepts of Conopinae (Diptera: Conopidae) <b>Margaret Schneider</b>	Biological and natural control of African schistosomiasis host snails by predatory sciomyzid fly larvae <b>Ray Miller</b>  Studies on the anti-bloodsucking measure against <i>Hirosia iyoensis</i> (Tabanidae) by tracking methods <b>Mamoru Watanabe</b>	Dolichopodidae in Flanders (Belgium) <b>Marc Pollet</b>
<b>CONFERENCE DINNER ON RIVER QUEEN</b> <b>Coaches Depart Kings College at 6.15pm      Coaches Depart River Queen at 10.30pm</b>			

Time	FRIDAY 4 OCTOBER	
8.10-8.50	<b>PLENARY SPEAKER</b> - Steele Building Room 206 Mosquito-borne disease in Australia - an increasing concern? <b>Richard Russell, University of Sydney (Chair: Scott O'Neill)</b>	
09.00-10.30	<b>CONTRIBUTED PAPERS - Medical and Veterinary Entomology: Mosquitoes</b> <b>Steele Building Room 206</b> <b>(Chair: Des Foley)</b>	<b>SYMPOSIUM - Cataloguing and Databasing</b> <b>Steele Building Room 309</b> <b>(Chair: Thomas Pape)</b>
	<p>Molecular identification of <i>Anopheles</i> and <i>Culex</i> mosquitoes <b>Cathy Walton</b></p> <p>Mosquito control in Brisbane City <b>Mike Muller</b></p> <p>Induced immunity against haemolymph proteins of <i>Anopheles stephensi</i>: effects on fecundity of mosquito and transmission blocking of malaria parasites <b>Surendra Gakhar</b></p> <p>Insights into the population structure of the southwest Pacific malaria vector <i>Anopheles farauti</i> 2 (Diptera: Culicidae) by following ribosomal DNA spacer polymorphisms <b>Nigel Beebe</b></p> <p>Molecular characterisation and species distribution of the <i>Anopheles maculipennis</i> complex in Iran <b>Mehdi Sedaghat</b></p> <p>Effects of three plant extracts on eggs and larval development of <i>Culex pipiens</i> L. <b>Ahmed Zaitoun</b></p>	<p><b>Keynote Address</b> Diptera: Discovery and Dissemination in a Digital Domain (D5) <b>Chris Thompson</b></p> <p>Embracing specimen-level databases: expectations and anxieties! <b>Michael Irwin</b></p> <p>Meeting the interrelated challenges of specimen, nomenclature, and literature tracking with Mandala <b>Gail Kampmeier</b></p>
10.30-11.00	<b>REFRESHMENTS - Student Union</b>	
11.00-12.30	<b>CONTRIBUTED PAPERS - Medical and Veterinary Entomology: Mosquitoes (continued)</b> <b>(Chair: Des Foley)</b> and <b>CONTRIBUTED PAPERS - Forensic Entomology</b> <b>(Chair: Ian Dadour)</b> <b>Steele Building room 206</b>	<b>SYMPOSIUM - Cataloguing and Databasing</b> <b>Steele Building Room 309</b> <b>(Chair: Thomas Pape)</b>
	<p>Botanical management of filarial vector, <i>Culex quinquefasciatus</i> Say <b>Kadarkarai Murugan</b></p> <p>Evaluation of the effect of exposure to tannic acid and the entomopathogenic fungus <i>Beauveria bassiana</i> on the ecological competence of <i>Anopheles stephensi</i> <b>Mohammad Saaid Dayer</b></p> <p style="text-align: center;"><b>10 minute break before start of next session</b></p> <p style="text-align: center;"><b>CONTRIBUTED PAPERS - Forensic Entomology</b></p> <p>A preliminary survey of forensically important Diptera in Victoria, Australia <b>Melanie Archer</b></p>	<p>Collection management and databasing at the Entomology Department of INBio, Costa Rica. <b>Manuel Zumbado</b></p> <p>Mining the Dipteran genome: tools and resources from GenBank/EMBL and NCBI <b>Brian Wiegmann</b></p> <p>Fauna Europaea - the Diptera component <b>Thomas Pape</b></p> <p>Databasing European Dolichopodidae (Diptera) in the frame of Fauna Europaea <b>Marc Pollet</b></p>

	<p>Morphological and molecular identification of forensically important blow fly species (Diptera: Calliphoridae) from Taiwan <b>Shiuh-Feng Shiao</b></p> <p>Blowflies associated with pig carcasses exposed in different environments and altitudes in Southeastern Brazil. <b>Aricio Linhares</b></p> <p>The humble maggot in the 21st Century, a compendium of information <b>Ian Dadour</b></p>	<p>Asilidae database - content, structure and accessibility <b>Torsten Dikow</b></p> <p>A World catalogue of Pallopteridae (Diptera) <b>Bernhard Merz</b></p> <p>Catalogue of the Craneflies of the World with a note on the work by C.P. Alexander (author of 11559 crane fly names) <b>Pjotr Oosterbroek</b></p>
12.45-1.15	<b>CLOSING CEREMONY, AWARDING OF PRIZES AND INVITATION TO NEXT CONGRESS</b>	
1.15-2.15	<b>LUNCH - <i>Student Union</i></b>	

***Information Disclaimer: The speakers, topics and times are correct at the time of publishing. In the event of unforeseen circumstances, the organisers reserve the right to alter or delete items from the Congress Program***

# 5th International Congress of Dipterology Provisional Program

[Sunday 29 September](#) | [Monday 30 September](#) | [Tuesday 1 October](#) | [Wednesday 2 October](#) | [Thursday 3 October](#) | [Friday 4 October](#)

Time	SUNDAY 29 SEPTEMBER
	<b>4.00pm - REGISTRATION</b>
	<b>5.00pm - 7.00pm - WELCOME DRINKS - <i>Student Union Heath/Holt Rooms</i></b> <b>6pm Welcome Address by David Yeates "Blowies, Mossies and the Great Aussie Salute"</b>

Time	MONDAY 30 SEPTEMBER				
8.00 -	REGISTRATION				
9.00-9.30	<b>WELCOME and OPENING ADDRESS - <i>Steele Building Room 206</i></b> Welcome by David Yeates (Chair) Welcome to University of Queensland by Professor David Siddle (Deputy Vice-Chancellor (Research), University of Queensland) Geoff Garrett (CEO, CSIRO)				
9.30-10.30	<b>SYMPOSIUM - The Influence of Modern Innovations on Systematic Inquiry, with Emphasis on Diptera (Chair: Mike Irwin)</b> The influence of modern innovations on systematic inquiry, with emphasis on Diptera <b>Michael Irwin</b> Phylogenetic assessment: the advent of the Hennigian Philosophy <b>Rudolf Meier</b> Molecular biology: a set of new characters for phylogenetic assessment <b>Brian Wiegmann</b> Modern innovations in systematic inquiry <b>Christine Lambkin</b>				
10.30-11.00	<b>REFRESHMENTS - <i>Student Union</i></b>				
11.00-12.30	Bioinformatics and the manipulation of biological information <b>Jim Croft</b> Web-based description and identification - what tools do we need? <b>Kevin Thiele</b> Geographical information systems: the spatial patterning of life <b>David Peters</b> Interpreting the fossil record of Diptera: the temporal patterning of life <b>David Grimaldi</b> Interpreting spatio-temporal patterns among select clades of Diptera <b>Evert Schlinger</b> The urgency to make all life known <b>Ian Cresswell</b>				
12.30-1.30	<b>LUNCH - <i>Student Union</i></b>				
1.30-3.00	<table border="1"> <tbody> <tr> <td> <b>SYMPOSIUM - The Influence of Modern Innovations on Systematic Inquiry with Emphasis on Diptera (continued) (Chair: Mike Irwin)</b> and <b>SYMPOSIUM - Diptera in Biodiversity and Conservation 1 (Chair: Rudolf Meier)</b> <b><i>Steele Building Room 206</i></b> </td> <td> <b>WORKSHOP - Hornfly Management and Resistance</b> <b><i>Steele Building Room 309</i></b> <b>(Chair: Lane Foil)</b> </td> </tr> <tr> <td>Diptera: a lot of flies yet to be discovered <b>Chris Thompson</b></td> <td>An overview of Horn Fly (Diptera: Muscidae) resistance surveys and research programs in the United States <b>Fred Knapp</b></td> </tr> </tbody> </table>	<b>SYMPOSIUM - The Influence of Modern Innovations on Systematic Inquiry with Emphasis on Diptera (continued) (Chair: Mike Irwin)</b> and <b>SYMPOSIUM - Diptera in Biodiversity and Conservation 1 (Chair: Rudolf Meier)</b> <b><i>Steele Building Room 206</i></b>	<b>WORKSHOP - Hornfly Management and Resistance</b> <b><i>Steele Building Room 309</i></b> <b>(Chair: Lane Foil)</b>	Diptera: a lot of flies yet to be discovered <b>Chris Thompson</b>	An overview of Horn Fly (Diptera: Muscidae) resistance surveys and research programs in the United States <b>Fred Knapp</b>
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	<p>Discovering and managing the patterns of life - from RAM to rammed earth: a perspective from UNESCO <b>Ian Cresswell</b></p> <p>Concluding remarks, questions and discussion: Panel of Speakers <b>David Yeates</b></p> <p><b>2.15pm SYMPOSIUM - Diptera in Biodiversity and Conservation 1</b></p> <p>Guild analyses in the study of dipteran biodiversity; a rationale and critique <b>Roger Kitching</b></p> <p>Diptera diversity on tree trunks <b>Daniel Bickel</b></p> <p>Australian glowworms (Diptera: Keroplatidae: <i>Arachnocampa</i> Spp.): identity, diversity, and management <b>Claire Baker</b></p>	<p>Field surveys of insecticide resistance in Australian buffalo fly <i>Haematobia irritans exigua</i> De Meijere (Diptera: Muscidae) <b>Bill Farnsworth</b></p> <p>A summary of studies on the economic impact of horn flies <b>Jerry Hogsette</b></p> <p>Management and resistance of horn fly and buffalo fly: diagnostic techniques for metabolic resistance <b>John Pruett</b></p> <p>Management and resistance of horn fly and buffalo fly: diagnostic techniques for target site resistance <b>Felix Guerrero</b></p> <p>Movement of horn flies among cattle herds <b>Ronnie Byford</b></p>	
3.00-3.30	<b>REFRESHMENTS - Student Union</b>		
3.30-5.00	<p><b>SYMPOSIUM - Diptera in Biodiversity and Conservation 2</b> <b>Steele Building Room 206</b> <b>(Chair: Dan Bickel)</b></p> <p>Antler flies (Phytalmia, Tephritidae) are fascinating, but not bioindicators <b>Gary Dodson</b></p> <p>Sedges, mud and myriads of flies: the brachyceran fauna of sedge meadows in southern Canada <b>Frederic Beaulieu</b></p> <p>Chironomid communities (Diptera, Chironomidae) in cold alpine springs. Prospect for a long-term biomonitoring <b>Elisabeth Stur</b></p> <p>The dipteran fauna of a Central European mountain stream <b>Ruediger Wagner</b></p> <p>The method of the evaluation of antropogenic changes in the environment by means of the family Chloropidae (Diptera). <b>Stepan Kubik</b></p> <p>Habitat modification and dipteran biodiversity in central New Zealand <b>Ian Andrew</b></p> <p>Biodiversity patterns in Neotropical dolichopodid faunas (Diptera: Dolichopodidae) <b>Marc Pollet</b></p> <p>Status and geographical distribution of three endangered Karelian keroplatids (Diptera: Keroplatidae) <b>Dimitri Bartenev</b></p>	<p><b>WORKSHOP - Hornfly Management and Resistance</b> <b>Steele Building Room 309</b> <b>(Chair: Lane Foil)</b></p> <p>Behaviour-modifying systems for the control of buffalo fly, <i>Haematobia irritans exigua</i> de Meijere (Diptera: Muscidae) <b>Rudolf Urech</b></p> <p>Control of the horn fly and buffalo fly - past, present and future chemistries and strategies <b>John Riner</b></p> <p>The use of endectocides for horn fly control <b>James Hawkins</b></p> <p>Strategies for managing horn fly, <i>Haematobia irritans</i>, resistance <b>Lane Foil</b></p>	<p><b>WORKSHOP - Sciomyzidae</b> <b>Steele Building Room 324</b> <b>(Chair: Lloyd Knutson)</b></p> <p>The struggle over reconstructing the phylogenetic relationships of the Sciomyzoidea (Diptera) <b>Rudolf Meier</b></p> <p>Morphodiversity and biodiversity in <i>Sepedon</i> Latreille and related genera: a lineage, a tribe, or a subfamily? (Diptera: Sciomyzidae) <b>Lloyd Knutson</b></p> <p><i>Sepedon knutsoni</i>, a second oligochaete feeding sciomyzid from Africa <b>Jean-Claude Vala</b></p> <p>Predation and trail-following behaviour in selected marsh fly species (Diptera: Sciomyzidae) <b>Rory Mc Donnell</b></p>
5.00 -	<b>HAPPY HOUR / POSTER VIEWING - POSTER AUTHORS TO BE PRESENT</b> <i>Student Union Heath/Holt Rooms</i> FREE EVENING		

## TUESDAY 1 OCTOBER

Time	TUESDAY 1 OCTOBER		
8.00 -	REGISTRATION		
8.10-8.50	<b>PLENARY SPEAKER</b> - <i>Steele Building Room 206</i> Phylogenetic relationships of nematocerous Diptera: synopsis of recent hypotheses <a href="#">Greg Courtney, Iowa State University</a> (Chair: <b>Monty Wood</b> )		
9.00-10.30	<b>SYMPOSIUM - Multiple Data Set Analyses for Dipteran Phylogenetics</b> <i>Steele Building Room 206</i> (Chair: <b>Brian Wiegmann</b> )	<b>SYMPOSIUM - Sperm Olympics: Sperm Competiton, Cryptic Female Choice and Mating Behaviour in Diptera</b> <i>Steele Building Room 309</i> (Chair: <b>Marion Kotrba</b> )	<b>WORKSHOP - Muscidae, Anthomyiidae</b> <i>Steele Building Room 324</i> (Chair: <b>Adrian Pont</b> )
	A genomic approach to phylogenetics: multiple gene systematics of the Drosophilidae <b>Patrick O'Grady</b>  Significant incongruence can be informative: insights from partitioned support analyses <b>Christine Lambkin</b>  Genes, fossils and morphology: combined data analysis and a revised time scale for higher-level phylogeny of the Brachycera <b>Brian Wiegmann</b>  Molecular and morphological evidence supporting relationships within Eremoneura: focus on Cyclorrhapha <b>Jeff Skevington</b>  Multiple data sets in addressing complex evolutionary questions within Diptera: case studies within Empidoidea and Simuliidae <b>John Moulton</b>  In search of an outgroup for the Tanyderidae (Diptera): conflict or congruence? <b>Darlene Judd</b>	The female reproductive tract in Diptera I: an introduction <b>Marion Kotrba</b>  The female reproductive tract in Diptera II: morphological diversity and details of the female reproductive tract in acalyptrate Schizophora <b>Marion Kotrba</b>  Female remating, operational sex ratio, and the arena of sexual selection <b>Therese Markow</b>  The labyrinth explored: female sperm storage organs, related structures, and sperm storage patterns in the tephritid fly, <i>Anastrepha suspensa</i> . <b>Ann Fritz</b>  Female remating, sperm displacement, remating speed, fertility, <i>Drosophila ananassae</i> <b>Shree Ram Singh</b>  Non-antagonistic reproductive interactions between the sexes: offsetting the load of sexual conflict <b>Lacey Knowles</b>	Diversity and taxonomy of catkin flies (Egle, Anthomyiidae) <b>Graham Griffiths</b>  The plumosa group of Hydrophoria (Anthomyiidae) <b>Masaaki Suwa</b>  A cladistic analysis of the Muscidae: first results - and problems <b>Adrian Pont</b>  Muscidae (Diptera) of the Neotropical Region: taxonomy of the basal groups <b>Claudio Carvalho</b>  Muscidae (Diptera) of the Neotropical Region - taxonomy of the apical groups <b>Mrcia Couri</b>  A molecular phylogeny of the <i>Stomoxys</i> group based on cytochrome oxidase I. (Presented by Adrian Pont) <b>Rosanna Giordano</b>
10.30-11.00	<b>REFRESHMENTS - Student Union</b>		
11.00-12.30	<b>SYMPOSIUM - Multiple Data Set Analyses for Dipteran Phylogenetics (continued)</b> (Chair: <b>Brian Wiegmann</b> ) and <b>SYMPOSIUM - Diptera in Biodiversity and Conservation 3</b> (Chair: <b>Rudolf Meier</b> ) <i>Steele Building Room 206</i>	<b>WORKSHOP - Muscidae, Anthomyiidae</b> <i>Steele Building Room 324</i> (Chair: <b>Adrian Pont</b> )	
	Multiple data sets and syrphid phylogenetics <b>Gunilla Stahls-Makela</b>  Phylogeny of Syrphinae (Diptera, Syrphidae) on the basis of morphological and molecular characters <b>Heikki Hippa</b>	Phylogeny of the genus <i>Thricops</i> Rondani (Diptera: Muscidae) based on molecular and morphological evidence. <b>Jade Savage</b>  Distributional pattern of Muscidae in the Neotropical Region - a preliminary approach <b>Claudio Carvalho</b>	

	<p>Combining molecular and morphological data for Sepsidae, Coelopidae, and Diopsidae: More conflict than congruence <b>Rudolf Meier</b></p> <p>Phylogeny of the small headed-flies (Diptera: Acroceridae) using multiple molecular markers <b>Shaun Winterton</b></p> <p><b>15 minute break before start of next session</b></p> <p><b>SYMPOSIUM - Diptera in Biodiversity and Conservation 3</b></p> <p>An estimate of dipteran species- richness in Australia <b>David Yeates</b></p>	<p>Comparison of the cuticular hydrocarbons of 7 <i>Musca</i> spp. worldwide (Diptera: Muscidae) <b>David Carlson</b></p>	
12.30-1.30	<b>LUNCH - Student Union</b>		
1.30-3.00	<p><b>SYMPOSIUM - Diptera in Biodiversity and Conservation 3</b> <b>Steele Building Room 206</b> <b>(Chair: Rudolf Meier)</b></p>	<p><b>WORKSHOP - Management of Tephritidae</b> <b>Steele Building room 309</b> <b>(Chair: Dick Drew)</b></p>	<p><b>WORKSHOP - Systematics and Ecology of Oestroidea + Hippoboscoidea</b> <b>Steele Building Room 324</b> <b>(Chair: James O'Hara)</b></p>
	<p>Nearctic Diptera: what we know and what we do not <b>Chris Thompson</b></p> <p>The Afrotropical Diptera - an overview <b>Brian Stuckenberg</b></p> <p>Neotropical Diptera biodiversity: an overview <b>Dalton De Souza Amorim</b></p> <p>Dipteran biodiversity of the Galapagos Islands (Ecuador) <b>Bradley Sinclair</b></p> <p>Hawaii as a Diptera biodiversity Hot Spot: a helluva lot of halteres in the Hawaiian Islands <b>Neal Evenhuis</b></p> <p>New Zealand Diptera: diversity and scope for further studies <b>Rod Macfarlane</b></p>	<p>Antlered Flies (Tephritidae: <i>Phytalmia</i>) of New Guinea and Australia <b>Gary Dodson</b></p> <p>Sexual selection in a tropical fruit fly: role of a plant derived chemical in mate choice <b>S Raghu</b></p> <p>Geographical distribution and seasonal abundance of pest fruit flies in Papua New Guinea <b>David Putulan</b></p> <p>Polytene chromosome analysis, esterase isozyme and Larval Serum Protein (LSP) banding patterns in the melon fly <i>Bactrocera cucurbitae</i> Coq. (Diptera: Tephritidae) with reference to irradiation treatment <b>Farzana Yesmin</b></p>	<p>Advances in the phylogenetics of the Tachininae (Tachinidae) <b>James O'Hara</b></p> <p>A review of New World Zaira Robineau-Desvoidy (Diptera; Tachinidae; Blondeliini) <b>Dan Hansen</b></p> <p>Louse-flies (Diptera: Hippoboscidae) in the Central Black Soil Region of Russia <b>Sergey Gaponov</b></p>
3.00-3.30	<b>REFRESHMENTS - Student Union</b>		
3.30-5.00	<p><b>SYMPOSIUM - Diptera in Biodiversity and Conservation 4</b> <b>Steele Building Room 206</b> <b>(Chair: Dan Bickel)</b></p>	<p><b>WORKSHOP - Agromyzidae</b> <b>Steele Building Room 309</b> <b>(Chair: David Henshaw)</b></p>	
	<p>Assessing species richness of Diptera using museum collections <b>Frederik Petersen</b></p> <p>Extrapolating from the observed species richness in a revision to its 'true' species diversity. A case study using <i>Euscelidia</i> (Asilidae: Diptera) <b>Torsten Dikow</b></p> <p>Spectacular diversity in <i>Cladochaeta</i> (Drosophilidae): anomalous or typical for Neotropical acalyptrate flies? <b>David Grimaldi</b></p>	<p><b>Tribute to Kenneth Spencer</b></p> <p>The phylogeny of Agromyzidae inferred from morphological characters <b>Martin Dempewolf</b></p> <p>Mine density, parasitism and emergence of the leafminers, <i>Liriomyza cicerina</i> (Rondani) and <i>Liriomyza bryoniae</i> (Kalt.) (Diptera: Agromyzidae), and parasitoids on broad beans in Egypt. <b>Samir El-Serwy</b></p>	



	<p>Why are there so many genera of Chloropidae? <b>Terry Wheeler</b></p> <p>The diversity of neotropical Micropezidae <b>Steve Marshall</b></p> <p>Biodiversity studies of Namibian Diptera - a developing country approach <b>Ashley Kirk-Spriggs</b></p>	<p>Seasonal fluctuations of the wheat leafminer, <i>Agromyza nigrella</i> (Rondani) (Diptera: Agromyzidae), and parasitism in Lower and Middle Egypt. <b>Samir El- Serwy</b></p> <p>Revision of nearctic species of Cerodontha (Cerodontha) (Diptera: Agromyzidae) with additional notes on other subgenera <b>Stephanie Boucher</b></p> <p>A CD-ROM on Agromyzidae of economic significance <b>Martin Dempewolf</b></p> <p>Feeding habits and the so called phytophagy of Chloropidae (Diptera) <b>Michael von Tschirnhaus</b></p>
7.00	<b>DINNER AT AUSTRALIAN WOOLSHED Coaches depart from Kings College 6.15pm Coaches depart Woolshed at 10.30pm</b>	

Time	WEDNESDAY 2 OCTOBER	
8.10-8.50	<b>PLENARY SPEAKER - Steele Building Room 206</b> The fossil history of associations between the Diptera and other organisms <a href="#">Conrad Labandeira</a> , <b>Smithsonian Institution (Chair: Brian Stuckenberg)</b>	
09.00-10.30	<p><b>CONTRIBUTED PAPERS - Fossils and Biogeography</b> (Chair: <a href="#">Conrad Labandeira</a>) and <b>CONTRIBUTED PAPERS - Evolution and Biology</b> (Chair: <a href="#">Gary Taylor</a>) <b>Steele Building Room 206</b></p>	<p><b>CONTRIBUTED PAPERS - Behaviour and Physiology</b> <b>Steele Building Room 309</b> (Chair: <a href="#">Gary Dodson</a>)</p>
	<p>Origin of main evolutionary lineages of the Diptera - fossil evidences <b>Wieslaw Krzeminski</b></p> <p>How recent are the Empidoidea of Baltic amber? <b>Hans Ulrich</b></p> <p>Amphipacific disjunctions in net-winged midges (Diptera: Blephariceridae) <b>Peter Zwick</b></p> <p><b>15 Minute break before start of next session</b></p> <p><b>CONTRIBUTED PAPERS - Evolution and Biology</b></p> <p>The Fergusoninidae: co-evolution between gall-flies, nematodes and their myrtaceous hosts. <b>Gary Taylor</b></p> <p>New Zealand robber flies: phenology and biogeography <b>Rod Macfarlane</b></p>	<p>Regulation of bioluminescence in Australian glow-worms <b>David Merritt</b></p> <p>Chemical cues regulate oviposition site selection in the midge <i>Chironomus tepperi</i> Skuse (Chironomidae) <b>Mark Stevens</b></p> <p>Different female ovipositing strategies in tephritid species of the family Tephritidae (Diptera) in <i>Centaurea scabiosa</i> (Asteraceae) - central Europe <b>Judita Kinkorova</b></p> <p>Flies that attack polymorphic snails on coloured backgrounds: selection for crypsis by a sarcophagid parasitoid of the marine snail <i>Littoraria filosa</i> <b>Steve McKillup</b></p>
10.30-11.00	<b>REFRESHMENTS - Student Union</b>	
11.00-12.30	<p><b>CONTRIBUTED PAPERS - Evolution and Biology</b> <b>Steele Building Room 206</b> (Chair: <a href="#">Gary Taylor</a>)</p>	<p><b>WORKSHOP - Cecidomyiidae</b> <b>Steele Building Room 309</b> (Chair: <a href="#">Junichi Yukawa</a>)</p>
	<p>Evolution of the sclerotised plant-piercing oviscapt in <i>Thrypticus</i> (Diptera: Dolichopodidae) <b>Daniel Bickel</b></p> <p>Do Wolbachia infections obscure phylogeographic patterns of the European cherry fruit fly? <b>Markus</b></p>	<p>Facultative competition between two gall-midge species (Cecidomyiidae) on <i>Suaeda monoica</i> (Chenopodiaceae) <b>Netta Dorchin</b></p> <p>Synchronization of gall midge emergence with host plant phenology <b>Junichi Yukawa</b></p>

	<p><b>Riegler</b></p> <p>Fly pollination and plant breeding systems: are flies good pollinators? <b>Chris Borkent</b></p> <p>On the natural history and all life-history stages of the only European stalk-eyed fly, <i>Sphyracephala europaea</i> (Diopsidae: Diptera). <b>Mihaly Foldvari</b></p> <p>The immature stages of soldier-flies (Diptera, Stratiomyidae) in South America - new reports and biodiversity <b>Jose Roberto Pujol Luz</b></p> <p>Sex, flies and videotape: pollination and sexual deception in the Australian terrestrial orchid <i>Pterostylis</i> <b>Joanna Hamilton</b></p> <p>Understanding the evolution of insect: microbe associations using <i>Drosophila melangaster</i> whole genome microarrays <b>Elizabeth McGraw</b></p>	<p>The gall midges (Cecidomyiidae) of <i>Carya</i> (Juglandaceae) in the Nearctic Region <b>Raymond Gagne</b></p> <p>Pupal characteristics of the Japanese <i>Asphondylia</i> gall midges (Diptera: Cecidomyiidae) and their species identification by DNA sequencing <b>Nami Uechi</b></p> <p>Morphology and a preliminary phylogenetic analysis of immatures of Neotropical <i>Asphondyliini</i> genera (Diptera: Cecidomyiidae) <b>Dalton De Souza Amorim</b></p> <p>Inter- and intraspecific comparison among <i>Asteralobia</i> gall midges (Diptera: Cecidomyiidae) on <i>Ilex</i> species (Aquifoliaceae): sympatric vs. allopatric speciation <b>Makoto Tokuda</b></p> <p>Zoophagous gall midges of the Italian fauna (Diptera: Cecidomyiidae) <b>Mario Solinas</b></p>
12.30-1.30	<b>LUNCH - Student Union</b>	
1.30-3.00	<p><b>SYMPOSIUM - Digital Diptera: Fly Identification in the New Millennium</b> <b>Steele Building Room 206</b> <b>(Chair: Steve Marshall)</b></p> <p>Fly identification: crisis, revolution or evolution? <b>Steve Marshall</b></p> <p>An interactive key to fly families: from Australia to the world! <b>David Yeates</b></p> <p>Simplified digital photography for museum work <b>Stephen Gaimari</b></p> <p>Identification: some basics and their implications for digital solutions <b>Chris Thompson</b></p> <p>DORSALIS - an interactive key to fruit flies of the <i>Bactrocera</i> (<i>Bactrocera</i>) <i>dorsalis</i> complex <b>Amy Lawson</b></p> <p>Identification of flies (Diptera) and other insects by general audiences using digital technologies: unlimited access to illustrations <b>Riley Nelson</b></p>	<p><b>CONTRIBUTED PAPERS - Systematics of Simuliidae</b> <b>Steele Building Room 309</b> <b>(Chair: Sixto Coscarón)</b></p> <p>Do the Neotropical <i>Simulium</i> subgenera constitute a monophyletic taxon? <b>Daniel Rafael Miranda-Esquivel</b></p> <p>A cladistic definition of <i>Simulium</i> (<i>Ectemnaspis</i>) and <i>S. (Psilopelmia)</i> subgenera (Diptera: Simuliidae) <b>Sixto Coscarón</b></p> <p>Systematics of black flies (Diptera: Simuliidae) in Thailand <b>Suwannee Phayuasena</b></p> <p>Taxonomic revision and cladistic analysis of <i>Simulium</i> (<i>Hearlea</i>) Vargas, Martínez Palacios &amp; Díaz Nájera (Diptera: Simuliidae) <b>Sixto Coscarón</b></p>
3.00-3.30	<b>REFRESHMENTS - Student Union</b>	
3.30-5.00	<p><b>CONTRIBUTED PAPERS - Phylogeny of Lower Diptera and Lower Brachycera</b> <b>Steele Building Room 206 (Chair: Brad Sinclair)</b></p> <p>From polyphyly to biogeography of Thereva (Asiloidea: Therevidae) <b>Kevin Holston</b></p> <p>New molecular and morphological evidence for the phylogenetic placement of <i>Phycini</i> and <i>Xestomyzini</i> (Diptera, Therevidae) <b>Martin Hauser</b></p> <p>The Exoprosopini, Australia and the world: revelations from systematic studies <b>Christine Lambkin</b></p> <p>A phylogenetic analysis of Bibionidae <b>Scott Fitzgerald</b></p> <p>The main clades of Sciaridae (Diptera) <b>Pekka Vilkkamaa</b></p>	
5.00-6.00	<b>OPEN COUNCIL MEETING Steele Building Room 206</b>	
6.00-7.00	<b>HAPPY HOUR - FREE EVENING</b>	

Time

THURSDAY 3 OCTOBER

8.10-8.50	<b>PLENARY SPEAKER - Steele Building Room 206</b> The Evolution of Segmentation and Body Patterning <a href="#">Nipan Patel</a> , <b>University of Chicago (Chair: Brad Sinclair)</b>		
9.00-10.30	<b>WORKSHOP - Development (Chair: David Merritt) and SYMPOSIUM - The Genetics of Biological Invasions (Chair George Roderick) Steele Building Room 206</b>	<b>CONTRIBUTED PAPERS - African Diptera: Biogeography and Gondwanaland Steele Building 309 (Chair: Ashley Kirk-Spriggs)</b>	<b>WORKSHOP - Biology of Calliphoridae and Sarcophagidae Steele Building Room 324 (Chair: James Wallman)</b>
	<p>Evolution of embryonic axis specification in Diptera <b>Urs Schmidt-Ott</b></p> <p>Influential Passengers: Inherited <i>Wolbachia</i> infections of insects <b>Scott O'Neill</b></p> <p><b>10 Minute break before next Session</b></p> <p><b>SYMPOSIUM - The Genetics of Biological Invasions</b></p> <p>Introduction <b>George Roderick</b></p> <p>Genetic tools for studying invasive Diptera <b>Andrew Bohonak</b></p> <p>Tracking the spread of the invasive horn and buffalo flies, <i>Haematobia irritans irritans</i> and <i>H. i. Exigua</i>, using cytochrome oxidase I and <i>Wolbachia</i> <b>Rosanna Giordano</b> (Presented by Adrian Pont)</p>	<p>The biogeographical relationships of the Acroceridae of Africa, Madagascar and South America <b>Evert Schlinger</b></p> <p>New insights into the palaeogeography and breakup of Gondwana, and some associated biogeographical topics <b>Brian Stuckenberg</b></p> <p>African biogeography patterns - an introduction <b>Ashley Kirk-Spriggs</b></p> <p>The distributional patterns for neotropical / afrotropical / australo-oriental <i>Simulium</i> Latreille (Diptera: Simuliidae) subgenera <b>Daniel Rafael Miranda-Esquivel</b></p> <p>Biogeography of Afrotropical Chironomidae (Diptera) <b>Torbjorn Ekrem</b></p> <p>The phylogenetic relationships of <i>Archaeochlus</i> Brundin, <i>Austrochlus</i> Cranston and <i>Afrochlus</i> Freeman (Diptera: Nematocera), basal chironomid genera with a Gondwanan connection <b>Jon Martin</b></p>	<p>Phylogeny of Chrysomyine blow flies <b>Hiromu Kurahashi</b></p> <p>Biodiversity of sarcophagid, calliphorid and muscid flies (Diptera) of Sundarbans Biosphere Reserve, India <b>Bhanu Chandra Nandi</b></p> <p>The evolution of ectoparasitism in calliphorid blowflies <b>Jamie Stevens</b></p> <p>Flesh flies (Sarcophagidae) from southern Appalachian mountain summits: rare species, rare sites, and human encroachment <b>Greg Dahlem</b></p> <p>Molecular systematics and identification of Australian carrion-breeding blowflies <b>James Wallman</b></p>
10.30-11.00	<b>REFRESHMENTS - Student Union</b>		
11.00-12.30	<b>SYMPOSIUM - The Genetics of Biological Invasions Steele Building Room 206 (Chair: George Roderick)</b>	<b>CONTRIBUTED PAPERS - African Diptera: Biogeography and Gondwanaland Steele Building Room 309 Chair: Ashley Kirk-Spriggs)</b>	<b>WORKSHOP - Biology of Calliphoridae and Sarcophagidae Steele Building Room 324 (Chair: James Wallman)</b>
	<p>Medfly (<i>Ceratitis capitata</i>) bioinvasions of California <b>Giulliano Gasperi</b></p> <p>Inferring the source of outbreak populations of Queensland fruit fly <b>Stuart Gilchrist</b></p> <p>Diptera invasions in South Pacific islands: consequences for public health <b>Neil Davies</b></p> <p>Are flies model insect invaders? Genetics, ecology, behavior, and adaptation <b>George Roderick</b></p>	<p>The present state of taxonomy and biogeography of the Heleomyzidae and Trixoscelididae in the Afrotropical Region. <b>A.J. Woznica</b> (Presented by Ashley Kirk-Spriggs)</p> <p>Zoogeographical distribution of Afrotropical species of <i>Atherigona</i> Rondani (Diptera: Muscidae) <b>Michael Chidoze Dike</b></p> <p>Southern African Empidoidea (Diptera): phylogenetic patterns and biogeographic implications <b>Bradley Sinclair</b></p> <p>African Mythicomysiidae (Diptera) - biogeographic Implications of a</p>	<p><i>Sarcophaga megafilosia</i> and <i>S. meiofilosia</i>: flesh fly parasitoids of marine snails in Central Queensland mangroves <b>Thomas Pape</b></p> <p>The joint post feeding radial larval dispersal in flies of genus <i>Chrysomya</i>: weight, depth and distance for pupation <b>Leonardo Gomes</b></p>

	diverse group of flies <b>Neal Evenhuis</b>		
12.30-1.30	<b>LUNCH - Student Union</b>		
1.30-3.00	<p><b>CONTRIBUTED PAPERS - Phylogeny of Cyclorrhapha Steel Building Room 206 (Chair: Christine Lambkin)</b></p> <p>The main clades of the Sphaeroceridae (Diptera) <b>Natalia Kuznetzova</b></p> <p>Stirring the classification of Sphaeroceroidea or Heteromyzoidea <b>David McAlpine</b></p> <p>Relationships and limits of the Pyrgotidae (Diptera: Schizophora: Tephritoidea) <b>Valery Korneyev</b></p> <p>Aiming for a phylogenetic classification of the Lauxanioidae <b>Stephen Gaimari</b></p> <p>Towards a phylogenetic classification of Syrphidae (Diptera) <b>Sergey Kuznetzov</b></p>	<p><b>CONTRIBUTED PAPERS - Systematics of Lower Diptera Steel Building Room 309 (Chair: Greg Courtney)</b></p> <p>A re-examination of the 'Chaoboriform' genera (Diptera: Chaoboridae) using larval morphological characters <b>Joshua Ogawa</b></p> <p>The position of the subfamily Bruchomyiinae in the family Psychodidae <b>Ruediger Wagner</b></p> <p>Austrochironomus, a subgenus of <i>Chironomus</i> Meigen (Diptera: Chironomidae) <b>Masaru Yamamoto</b></p> <p>Towards a phylogeny of <i>Tanytarsus</i> van der Wulp. Is morphology alone sufficient to reconstruct the genealogical relationships between species in Chironomidae? <b>Torbjorn Ekrem</b></p> <p>Revision of <i>Wyeomyia</i> (<i>Hystatomyia</i>) Dyar &amp; Knab (Diptera: Culicidae) <b>Jessica Adkins</b></p>	<p><b>WORKSHOP - Empidoidea Steel Building Room 324 (Marc Pollett)</b></p> <p>Dolichopodidae in the canopy of lowland primary rainforest on the north coast of Papua New Guinea <b>Patrick Grootaert</b></p> <p>Species groups within the genus <i>Hilara</i> (Empididae) in New Zealand <b>Ian Andrew</b></p> <p>The ultrastructure and function of the silk-producing basitarsus in the <i>Hilarini</i> (Diptera: Empididae) <b>James Young</b></p> <p>A new species of <i>Nemedina</i> Chandler from mid-Asia (Diptera: Empidoidea) resolves the phylogenetic position of this enigmatic genus <b>Bradley Sinclair</b></p> <p>Systematics of Nearctic <i>Platypalpus</i> Macquart (Empidoidea: Tachydromiinae) <b>Jeffrey Cumming</b></p>
3.00-3.30	<b>REFRESHMENTS - Student Union</b>		
3.30-5.00	<p><b>CONTRIBUTED PAPERS - Systematics of Eremoneura Steel Building Room 206 (Chair: Margaret Schneider)</b></p> <p>Recent advances in the study of the Asteiidae <b>Amnon Freidberg</b></p> <p>A new look at the Milichiidae, and a revision of <i>Litometopa</i> Sabrosky (Diptera, Schizophora) <b>Irina Brake</b></p> <p>Cladistic analysis of the genus <i>Ceratitis</i> MacLeay (Diptera, Tephritidae) <b>Marc De Meyer</b></p> <p>A revision of <i>Asilostoma</i> Hendel, 1925 (Diptera, Lauxaniidae) <b>Vera Cristina Silva</b></p> <p>Taxonomic revision of the Afrotropical species of the Eudorylini (Diptera: Pipunculidae) with discussion on special male genital characters <b>Mihaly Foldvari</b></p>	<p><b>CONTRIBUTED PAPERS - General Medical and Veterinary Entomology Steel Building Room 309 (Chair: Marlene Elson-Harris)</b></p> <p>Biology and ecology of sand flies in new Z.C.L. foci in Semnan province, Iran <b>Hadi Vatani</b></p> <p>New World screwworm sex pheromone: isolation and synthesis <b>David Carlson</b></p> <p>Risk-spreading larviposition behaviour of nasopharyngeal <i>Cephenemyia</i> (Diptera: Oestridae) parasites of deer <b>John Anderson</b></p> <p>Host specific oestrids of deer repelled by non-host odours <b>John Anderson</b></p> <p>Ecology of sandflies in the main central foci of zoonotic cutaneous leishmaniasis of Iran <b>Yaghoobi-Ershadi</b></p>	<p><b>WORKSHOP - Empidoidea Steel Building Room 309 (Chair: Marc Pollett)</b></p> <p>Phylogenetic relationships within the Empidinae (Empididae) <b>Christophé Daugeron</b></p> <p>The world fauna of <i>Rhamphomyia</i> (<i>Megacyttarus</i>) <b>Miroslav Bartak</b></p> <p>Preliminary results of a revision of the Neotropical Neurigoninae (Dolichopodidae) <b>Stefan Naglis</b></p> <p>Cladistic relationships of the subfamily Dolichopodinae <b>Scott Brooks</b></p> <p>An overview of recent ecological research on</p>

	New concepts of Conopinae (Diptera: Conopidae) <b>Margaret Schneider</b>	Biological and natural control of African schistosomiasis host snails by predatory sciomyzid fly larvae <b>Ray Miller</b>  Studies on the anti-bloodsucking measure against <i>Hirosia iyoensis</i> (Tabanidae) by tracking methods <b>Mamoru Watanabe</b>	Dolichopodidae in Flanders (Belgium) <b>Marc Pollet</b>
<b>CONFERENCE DINNER ON RIVER QUEEN</b> <b>Coaches Depart Kings College at 6.15pm      Coaches Depart River Queen at 10.30pm</b>			

Time	FRIDAY 4 OCTOBER	
8.10-8.50	<b>PLENARY SPEAKER</b> - Steele Building Room 206 Mosquito-borne disease in Australia - an increasing concern? <b>Richard Russell, University of Sydney (Chair: Scott O'Neill)</b>	
09.00-10.30	<b>CONTRIBUTED PAPERS - Medical and Veterinary Entomology: Mosquitoes</b> <b>Steele Building Room 206</b> <b>(Chair: Des Foley)</b>	<b>SYMPOSIUM - Cataloguing and Databasing</b> <b>Steele Building Room 309</b> <b>(Chair: Thomas Pape)</b>
	<p>Molecular identification of <i>Anopheles</i> and <i>Culex</i> mosquitoes <b>Cathy Walton</b></p> <p>Mosquito control in Brisbane City <b>Mike Muller</b></p> <p>Induced immunity against haemolymph proteins of <i>Anopheles stephensi</i>: effects on fecundity of mosquito and transmission blocking of malaria parasites <b>Surendra Gakhar</b></p> <p>Insights into the population structure of the southwest Pacific malaria vector <i>Anopheles farauti</i> 2 (Diptera: Culicidae) by following ribosomal DNA spacer polymorphisms <b>Nigel Beebe</b></p> <p>Molecular characterisation and species distribution of the <i>Anopheles maculipennis</i> complex in Iran <b>Mehdi Sedaghat</b></p> <p>Effects of three plant extracts on eggs and larval development of <i>Culex pipiens</i> L. <b>Ahmed Zaitoun</b></p>	<p><b>Keynote Address</b> Diptera: Discovery and Dissemination in a Digital Domain (D5) <b>Chris Thompson</b></p> <p>Embracing specimen-level databases: expectations and anxieties! <b>Michael Irwin</b></p> <p>Meeting the interrelated challenges of specimen, nomenclature, and literature tracking with Mandala <b>Gail Kampmeier</b></p>
10.30-11.00	<b>REFRESHMENTS - Student Union</b>	
11.00-12.30	<b>CONTRIBUTED PAPERS - Medical and Veterinary Entomology: Mosquitoes (continued)</b> <b>(Chair: Des Foley)</b> and <b>CONTRIBUTED PAPERS - Forensic Entomology</b> <b>(Chair: Ian Dadour)</b> <b>Steele Building room 206</b>	<b>SYMPOSIUM - Cataloguing and Databasing</b> <b>Steele Building Room 309</b> <b>(Chair: Thomas Pape)</b>
	<p>Botanical management of filarial vector, <i>Culex quinquefasciatus</i> Say <b>Kadarkarai Murugan</b></p> <p>Evaluation of the effect of exposure to tannic acid and the entomopathogenic fungus <i>Beauveria bassiana</i> on the ecological competence of <i>Anopheles stephensi</i> <b>Mohammad Saaid Dayer</b></p> <p style="text-align: center;"><b>10 minute break before start of next session</b></p> <p style="text-align: center;"><b>CONTRIBUTED PAPERS - Forensic Entomology</b></p> <p>A preliminary survey of forensically important Diptera in Victoria, Australia <b>Melanie Archer</b></p>	<p>Collection management and databasing at the Entomology Department of INBio, Costa Rica. <b>Manuel Zumbado</b></p> <p>Mining the Dipteran genome: tools and resources from GenBank/EMBL and NCBI <b>Brian Wiegmann</b></p> <p>Fauna Europaea - the Diptera component <b>Thomas Pape</b></p> <p>Databasing European Dolichopodidae (Diptera) in the frame of Fauna Europaea <b>Marc Pollet</b></p>

	<p>Morphological and molecular identification of forensically important blow fly species (Diptera: Calliphoridae) from Taiwan <b>Shiuh-Feng Shiao</b></p> <p>Blowflies associated with pig carcasses exposed in different environments and altitudes in Southeastern Brazil. <b>Aricio Linhares</b></p> <p>The humble maggot in the 21st Century, a compendium of information <b>Ian Dadour</b></p>	<p>Asilidae database - content, structure and accessibility <b>Torsten Dikow</b></p> <p>A World catalogue of Pallopteridae (Diptera) <b>Bernhard Merz</b></p> <p>Catalogue of the Craneflies of the World with a note on the work by C.P. Alexander (author of 11559 crane fly names) <b>Pjotr Oosterbroek</b></p>
12.45-1.15	<b>CLOSING CEREMONY, AWARDING OF PRIZES AND INVITATION TO NEXT CONGRESS</b>	
1.15-2.15	<b>LUNCH - <i>Student Union</i></b>	

***Information Disclaimer: The speakers, topics and times are correct at the time of publishing. In the event of unforeseen circumstances, the organisers reserve the right to alter or delete items from the Congress Program***

# 5th International Congress of Dipterology Provisional Program

[Sunday 29 September](#) | [Monday 30 September](#) | [Tuesday 1 October](#) | [Wednesday 2 October](#) | [Thursday 3 October](#) | [Friday 4 October](#)

Time	SUNDAY 29 SEPTEMBER
	<b>4.00pm - REGISTRATION</b>
	<b>5.00pm - 7.00pm - WELCOME DRINKS - <i>Student Union Heath/Holt Rooms</i></b> <b>6pm Welcome Address by David Yeates "Blowies, Mossies and the Great Aussie Salute"</b>

Time	MONDAY 30 SEPTEMBER				
8.00 -	REGISTRATION				
9.00-9.30	<b>WELCOME and OPENING ADDRESS - <i>Steele Building Room 206</i></b> Welcome by David Yeates (Chair) Welcome to University of Queensland by Professor David Siddle (Deputy Vice-Chancellor (Research), University of Queensland) Geoff Garrett (CEO, CSIRO)				
9.30-10.30	<b>SYMPOSIUM - The Influence of Modern Innovations on Systematic Inquiry, with Emphasis on Diptera (Chair: Mike Irwin)</b> The influence of modern innovations on systematic inquiry, with emphasis on Diptera <b>Michael Irwin</b> Phylogenetic assessment: the advent of the Hennigian Philosophy <b>Rudolf Meier</b> Molecular biology: a set of new characters for phylogenetic assessment <b>Brian Wiegmann</b> Modern innovations in systematic inquiry <b>Christine Lambkin</b>				
10.30-11.00	<b>REFRESHMENTS - <i>Student Union</i></b>				
11.00-12.30	Bioinformatics and the manipulation of biological information <b>Jim Croft</b> Web-based description and identification - what tools do we need? <b>Kevin Thiele</b> Geographical information systems: the spatial patterning of life <b>David Peters</b> Interpreting the fossil record of Diptera: the temporal patterning of life <b>David Grimaldi</b> Interpreting spatio-temporal patterns among select clades of Diptera <b>Evert Schlinger</b> The urgency to make all life known <b>Ian Cresswell</b>				
12.30-1.30	<b>LUNCH - <i>Student Union</i></b>				
1.30-3.00	<table border="1"> <tbody> <tr> <td> <b>SYMPOSIUM - The Influence of Modern Innovations on Systematic Inquiry with Emphasis on Diptera (continued) (Chair: Mike Irwin)</b> and <b>SYMPOSIUM - Diptera in Biodiversity and Conservation 1 (Chair: Rudolf Meier)</b> <b><i>Steele Building Room 206</i></b> </td> <td> <b>WORKSHOP - Hornfly Management and Resistance</b> <b><i>Steele Building Room 309</i></b> <b>(Chair: Lane Foil)</b> </td> </tr> <tr> <td>Diptera: a lot of flies yet to be discovered <b>Chris Thompson</b></td> <td>An overview of Horn Fly (Diptera: Muscidae) resistance surveys and research programs in the United States <b>Fred Knapp</b></td> </tr> </tbody> </table>	<b>SYMPOSIUM - The Influence of Modern Innovations on Systematic Inquiry with Emphasis on Diptera (continued) (Chair: Mike Irwin)</b> and <b>SYMPOSIUM - Diptera in Biodiversity and Conservation 1 (Chair: Rudolf Meier)</b> <b><i>Steele Building Room 206</i></b>	<b>WORKSHOP - Hornfly Management and Resistance</b> <b><i>Steele Building Room 309</i></b> <b>(Chair: Lane Foil)</b>	Diptera: a lot of flies yet to be discovered <b>Chris Thompson</b>	An overview of Horn Fly (Diptera: Muscidae) resistance surveys and research programs in the United States <b>Fred Knapp</b>
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Diptera: a lot of flies yet to be discovered <b>Chris Thompson</b>	An overview of Horn Fly (Diptera: Muscidae) resistance surveys and research programs in the United States <b>Fred Knapp</b>				

	<p>Discovering and managing the patterns of life - from RAM to rammed earth: a perspective from UNESCO <b>Ian Cresswell</b></p> <p>Concluding remarks, questions and discussion: Panel of Speakers <b>David Yeates</b></p> <p><b>2.15pm SYMPOSIUM - Diptera in Biodiversity and Conservation 1</b></p> <p>Guild analyses in the study of dipteran biodiversity; a rationale and critique <b>Roger Kitching</b></p> <p>Diptera diversity on tree trunks <b>Daniel Bickel</b></p> <p>Australian glowworms (Diptera: Keroplatidae: <i>Arachnocampa</i> Spp.): identity, diversity, and management <b>Claire Baker</b></p>	<p>Field surveys of insecticide resistance in Australian buffalo fly <i>Haematobia irritans exigua</i> De Meijere (Diptera: Muscidae) <b>Bill Farnsworth</b></p> <p>A summary of studies on the economic impact of horn flies <b>Jerry Hogsette</b></p> <p>Management and resistance of horn fly and buffalo fly: diagnostic techniques for metabolic resistance <b>John Pruett</b></p> <p>Management and resistance of horn fly and buffalo fly: diagnostic techniques for target site resistance <b>Felix Guerrero</b></p> <p>Movement of horn flies among cattle herds <b>Ronnie Byford</b></p>	
3.00-3.30	<b>REFRESHMENTS - Student Union</b>		
3.30-5.00	<p><b>SYMPOSIUM - Diptera in Biodiversity and Conservation 2</b> <b>Steele Building Room 206</b> <b>(Chair: Dan Bickel)</b></p> <p>Antler flies (Phytalmia, Tephritidae) are fascinating, but not bioindicators <b>Gary Dodson</b></p> <p>Sedges, mud and myriads of flies: the brachyceran fauna of sedge meadows in southern Canada <b>Frederic Beaulieu</b></p> <p>Chironomid communities (Diptera, Chironomidae) in cold alpine springs. Prospect for a long-term biomonitoring <b>Elisabeth Stur</b></p> <p>The dipteran fauna of a Central European mountain stream <b>Ruediger Wagner</b></p> <p>The method of the evaluation of antropogenic changes in the environment by means of the family Chloropidae (Diptera). <b>Stepan Kubik</b></p> <p>Habitat modification and dipteran biodiversity in central New Zealand <b>Ian Andrew</b></p> <p>Biodiversity patterns in Neotropical dolichopodid faunas (Diptera: Dolichopodidae) <b>Marc Pollet</b></p> <p>Status and geographical distribution of three endangered Karelian keroplatids (Diptera: Keroplatidae) <b>Dimitri Bartenev</b></p>	<p><b>WORKSHOP - Hornfly Management and Resistance</b> <b>Steele Building Room 309</b> <b>(Chair: Lane Foil)</b></p> <p>Behaviour-modifying systems for the control of buffalo fly, <i>Haematobia irritans exigua</i> de Meijere (Diptera: Muscidae) <b>Rudolf Urech</b></p> <p>Control of the horn fly and buffalo fly - past, present and future chemistries and strategies <b>John Riner</b></p> <p>The use of endectocides for horn fly control <b>James Hawkins</b></p> <p>Strategies for managing horn fly, <i>Haematobia irritans</i>, resistance <b>Lane Foil</b></p>	<p><b>WORKSHOP - Sciomyzidae</b> <b>Steele Building Room 324</b> <b>(Chair: Lloyd Knutson)</b></p> <p>The struggle over reconstructing the phylogenetic relationships of the Sciomyzoidea (Diptera) <b>Rudolf Meier</b></p> <p>Morphodiversity and biodiversity in <i>Sepedon</i> Latreille and related genera: a lineage, a tribe, or a subfamily? (Diptera: Sciomyzidae) <b>Lloyd Knutson</b></p> <p><i>Sepedon knutsoni</i>, a second oligochaete feeding sciomyzid from Africa <b>Jean-Claude Vala</b></p> <p>Predation and trail-following behaviour in selected marsh fly species (Diptera: Sciomyzidae) <b>Rory Mc Donnell</b></p>
5.00 -	<b>HAPPY HOUR / POSTER VIEWING - POSTER AUTHORS TO BE PRESENT</b> <i>Student Union Heath/Holt Rooms</i> FREE EVENING		



## TUESDAY 1 OCTOBER

Time	TUESDAY 1 OCTOBER		
8.00 -	REGISTRATION		
8.10-8.50	<b>PLENARY SPEAKER</b> - <i>Steele Building Room 206</i> Phylogenetic relationships of nematocerous Diptera: synopsis of recent hypotheses <a href="#">Greg Courtney, Iowa State University</a> (Chair: <b>Monty Wood</b> )		
9.00-10.30	<b>SYMPOSIUM - Multiple Data Set Analyses for Dipteran Phylogenetics</b> <i>Steele Building Room 206</i> (Chair: <b>Brian Wiegmann</b> )	<b>SYMPOSIUM - Sperm Olympics: Sperm Competiton, Cryptic Female Choice and Mating Behaviour in Diptera</b> <i>Steele Building Room 309</i> (Chair: <b>Marion Kotrba</b> )	<b>WORKSHOP - Muscidae, Anthomyiidae</b> <i>Steel Building Room 324</i> (Chair: <b>Adrian Pont</b> )
	A genomic approach to phylogenetics: multiple gene systematics of the Drosophilidae <b>Patrick O'Grady</b>  Significant incongruence can be informative: insights from partitioned support analyses <b>Christine Lambkin</b>  Genes, fossils and morphology: combined data analysis and a revised time scale for higher-level phylogeny of the Brachycera <b>Brian Wiegmann</b>  Molecular and morphological evidence supporting relationships within Eremoneura: focus on Cyclorrhapha <b>Jeff Skevington</b>  Multiple data sets in addressing complex evolutionary questions within Diptera: case studies within Empidoidea and Simuliidae <b>John Moulton</b>  In search of an outgroup for the Tanyderidae (Diptera): conflict or congruence? <b>Darlene Judd</b>	The female reproductive tract in Diptera I: an introduction <b>Marion Kotrba</b>  The female reproductive tract in Diptera II: morphological diversity and details of the female reproductive tract in acalyptrate Schizophora <b>Marion Kotrba</b>  Female remating, operational sex ratio, and the arena of sexual selection <b>Therese Markow</b>  The labyrinth explored: female sperm storage organs, related structures, and sperm storage patterns in the tephritid fly, <i>Anastrepha suspensa</i> . <b>Ann Fritz</b>  Female remating, sperm displacement, remating speed, fertility, <i>Drosophila ananassae</i> <b>Shree Ram Singh</b>  Non-antagonistic reproductive interactions between the sexes: offsetting the load of sexual conflict <b>Lacey Knowles</b>	Diversity and taxonomy of catkin flies (Egle, Anthomyiidae) <b>Graham Griffiths</b>  The plumosa group of Hydrophoria (Anthomyiidae) <b>Masaaki Suwa</b>  A cladistic analysis of the Muscidae: first results - and problems <b>Adrian Pont</b>  Muscidae (Diptera) of the Neotropical Region: taxonomy of the basal groups <b>Claudio Carvalho</b>  Muscidae (Diptera) of the Neotropical Region - taxonomy of the apical groups <b>Mrcia Couri</b>  A molecular phylogeny of the <i>Stomoxys</i> group based on cytochrome oxidase I. (Presented by Adrian Pont) <b>Rosanna Giordano</b>
10.30-11.00	REFRESHMENTS - <i>Student Union</i>		
11.00-12.30	<b>SYMPOSIUM - Multiple Data Set Analyses for Dipteran Phylogenetics (continued)</b> (Chair: <b>Brian Wiegmann</b> ) and <b>SYMPOSIUM - Diptera in Biodiversity and Conservation 3</b> (Chair: <b>Rudolf Meier</b> ) <i>Steele Building Room 206</i>	<b>WORKSHOP - Muscidae, Anthomyiidae</b> <i>Steele Building Room 324</i> (Chair: <b>Adrian Pont</b> )	
	Multiple data sets and syrphid phylogenetics <b>Gunilla Stahls-Makela</b>  Phylogeny of Syrphinae (Diptera, Syrphidae) on the basis of morphological and molecular characters <b>Heikki Hippa</b>	Phylogeny of the genus <i>Thricops</i> Rondani (Diptera: Muscidae) based on molecular and morphological evidence. <b>Jade Savage</b>  Distributional pattern of Muscidae in the Neotropical Region - a preliminary approach <b>Claudio Carvalho</b>	

	<p>Combining molecular and morphological data for Sepsidae, Coelopidae, and Diopsidae: More conflict than congruence <b>Rudolf Meier</b></p> <p>Phylogeny of the small headed-flies (Diptera: Acroceridae) using multiple molecular markers <b>Shaun Winterton</b></p> <p><b>15 minute break before start of next session</b></p> <p><b>SYMPOSIUM - Diptera in Biodiversity and Conservation 3</b></p> <p>An estimate of dipteran species- richness in Australia <b>David Yeates</b></p>	<p>Comparison of the cuticular hydrocarbons of 7 <i>Musca</i> spp. worldwide (Diptera: Muscidae) <b>David Carlson</b></p>	
12.30-1.30	<b>LUNCH - Student Union</b>		
1.30-3.00	<p><b>SYMPOSIUM - Diptera in Biodiversity and Conservation 3</b> <b>Steele Building Room 206</b> <b>(Chair: Rudolf Meier)</b></p>	<p><b>WORKSHOP - Management of Tephritidae</b> <b>Steele Building room 309</b> <b>(Chair: Dick Drew)</b></p>	<p><b>WORKSHOP - Systematics and Ecology of Oestroidea + Hippoboscoidea</b> <b>Steele Building Room 324</b> <b>(Chair: James O'Hara)</b></p>
	<p>Nearctic Diptera: what we know and what we do not <b>Chris Thompson</b></p> <p>The Afrotropical Diptera - an overview <b>Brian Stuckenberg</b></p> <p>Neotropical Diptera biodiversity: an overview <b>Dalton De Souza Amorim</b></p> <p>Dipteran biodiversity of the Galapagos Islands (Ecuador) <b>Bradley Sinclair</b></p> <p>Hawaii as a Diptera biodiversity Hot Spot: a helluva lot of halteres in the Hawaiian Islands <b>Neal Evenhuis</b></p> <p>New Zealand Diptera: diversity and scope for further studies <b>Rod Macfarlane</b></p>	<p>Antlered Flies (Tephritidae: <i>Phytalmia</i>) of New Guinea and Australia <b>Gary Dodson</b></p> <p>Sexual selection in a tropical fruit fly: role of a plant derived chemical in mate choice <b>S Raghu</b></p> <p>Geographical distribution and seasonal abundance of pest fruit flies in Papua New Guinea <b>David Putulan</b></p> <p>Polytene chromosome analysis, esterase isozyme and Larval Serum Protein (LSP) banding patterns in the melon fly <i>Bactrocera cucurbitae</i> Coq. (Diptera: Tephritidae) with reference to irradiation treatment <b>Farzana Yesmin</b></p>	<p>Advances in the phylogenetics of the Tachininae (Tachinidae) <b>James O'Hara</b></p> <p>A review of New World Zaira Robineau-Desvoidy (Diptera; Tachinidae; Blondeliini) <b>Dan Hansen</b></p> <p>Louse-flies (Diptera: Hippoboscidae) in the Central Black Soil Region of Russia <b>Sergey Gaponov</b></p>
3.00-3.30	<b>REFRESHMENTS - Student Union</b>		
3.30-5.00	<p><b>SYMPOSIUM - Diptera in Biodiversity and Conservation 4</b> <b>Steele Building Room 206</b> <b>(Chair: Dan Bickel)</b></p>	<p><b>WORKSHOP - Agromyzidae</b> <b>Steele Building Room 309</b> <b>(Chair: David Henshaw)</b></p>	
	<p>Assessing species richness of Diptera using museum collections <b>Frederik Petersen</b></p> <p>Extrapolating from the observed species richness in a revision to its 'true' species diversity. A case study using <i>Euscelidia</i> (Asilidae: Diptera) <b>Torsten Dikow</b></p> <p>Spectacular diversity in <i>Cladochaeta</i> (Drosophilidae): anomalous or typical for Neotropical acalyptrate flies? <b>David Grimaldi</b></p>	<p><b>Tribute to Kenneth Spencer</b></p> <p>The phylogeny of Agromyzidae inferred from morphological characters <b>Martin Dempewolf</b></p> <p>Mine density, parasitism and emergence of the leafminers, <i>Liriomyza cicerina</i> (Rondani) and <i>Liriomyza bryoniae</i> (Kalt.) (Diptera: Agromyzidae), and parasitoids on broad beans in Egypt. <b>Samir El-Serwy</b></p>	

	<p>Why are there so many genera of Chloropidae? <b>Terry Wheeler</b></p> <p>The diversity of neotropical Micropezidae <b>Steve Marshall</b></p> <p>Biodiversity studies of Namibian Diptera - a developing country approach <b>Ashley Kirk-Spriggs</b></p>	<p>Seasonal fluctuations of the wheat leafminer, <i>Agromyza nigrella</i> (Rondani) (Diptera: Agromyzidae), and parasitism in Lower and Middle Egypt. <b>Samir El- Serwy</b></p> <p>Revision of nearctic species of Cerodontha (Cerodontha) (Diptera: Agromyzidae) with additional notes on other subgenera <b>Stephanie Boucher</b></p> <p>A CD-ROM on Agromyzidae of economic significance <b>Martin Dempewolf</b></p> <p>Feeding habits and the so called phytophagy of Chloropidae (Diptera) <b>Michael von Tschirnhaus</b></p>
7.00	<b>DINNER AT AUSTRALIAN WOOLSHED Coaches depart from Kings College 6.15pm Coaches depart Woolshed at 10.30pm</b>	

Time	WEDNESDAY 2 OCTOBER	
8.10-8.50	<b>PLENARY SPEAKER - Steele Building Room 206</b> The fossil history of associations between the Diptera and other organisms <a href="#">Conrad Labandeira</a> , <b>Smithsonian Institution (Chair: Brian Stuckenberg)</b>	
09.00-10.30	<p><b>CONTRIBUTED PAPERS - Fossils and Biogeography</b> (Chair: <a href="#">Conrad Labandeira</a>) and <b>CONTRIBUTED PAPERS - Evolution and Biology</b> (Chair: <a href="#">Gary Taylor</a>) <b>Steele Building Room 206</b></p>	<p><b>CONTRIBUTED PAPERS - Behaviour and Physiology</b> <b>Steele Building Room 309</b> (Chair: <a href="#">Gary Dodson</a>)</p>
	<p>Origin of main evolutionary lineages of the Diptera - fossil evidences <b>Wieslaw Krzeminski</b></p> <p>How recent are the Empidoidea of Baltic amber? <b>Hans Ulrich</b></p> <p>Amphipacific disjunctions in net-winged midges (Diptera: Blephariceridae) <b>Peter Zwick</b></p> <p><b>15 Minute break before start of next session</b></p> <p><b>CONTRIBUTED PAPERS - Evolution and Biology</b></p> <p>The Fergusoninidae: co-evolution between gall-flies, nematodes and their myrtaceous hosts. <b>Gary Taylor</b></p> <p>New Zealand robber flies: phenology and biogeography <b>Rod Macfarlane</b></p>	<p>Regulation of bioluminescence in Australian glow-worms <b>David Merritt</b></p> <p>Chemical cues regulate oviposition site selection in the midge <i>Chironomus tepperi</i> Skuse (Chironomidae) <b>Mark Stevens</b></p> <p>Different female ovipositing strategies in tephritid species of the family Tephritidae (Diptera) in <i>Centaurea scabiosa</i> (Asteraceae) - central Europe <b>Judita Kinkorova</b></p> <p>Flies that attack polymorphic snails on coloured backgrounds: selection for crypsis by a sarcophagid parasitoid of the marine snail <i>Littoraria filosa</i> <b>Steve McKillup</b></p>
10.30-11.00	<b>REFRESHMENTS - Student Union</b>	
11.00-12.30	<p><b>CONTRIBUTED PAPERS - Evolution and Biology</b> <b>Steele Building Room 206</b> (Chair: <a href="#">Gary Taylor</a>)</p>	<p><b>WORKSHOP - Cecidomyiidae</b> <b>Steele Building Room 309</b> (Chair: <a href="#">Junichi Yukawa</a>)</p>
	<p>Evolution of the sclerotised plant-piercing oviscapt in <i>Thrypticus</i> (Diptera: Dolichopodidae) <b>Daniel Bickel</b></p> <p>Do Wolbachia infections obscure phylogeographic patterns of the European cherry fruit fly? <b>Markus</b></p>	<p>Facultative competition between two gall-midge species (Cecidomyiidae) on <i>Suaeda monoica</i> (Chenopodiaceae) <b>Netta Dorchin</b></p> <p>Synchronization of gall midge emergence with host plant phenology <b>Junichi Yukawa</b></p>

	<p><b>Riegler</b></p> <p>Fly pollination and plant breeding systems: are flies good pollinators? <b>Chris Borkent</b></p> <p>On the natural history and all life-history stages of the only European stalk-eyed fly, <i>Sphyracephala europaea</i> (Diopsidae: Diptera). <b>Mihaly Foldvari</b></p> <p>The immature stages of soldier-flies (Diptera, Stratiomyidae) in South America - new reports and biodiversity <b>Jose Roberto Pujol Luz</b></p> <p>Sex, flies and videotape: pollination and sexual deception in the Australian terrestrial orchid <i>Pterostylis</i> <b>Joanna Hamilton</b></p> <p>Understanding the evolution of insect: microbe associations using <i>Drosophila melangaster</i> whole genome microarrays <b>Elizabeth McGraw</b></p>	<p>The gall midges (Cecidomyiidae) of <i>Carya</i> (Juglandaceae) in the Nearctic Region <b>Raymond Gagne</b></p> <p>Pupal characteristics of the Japanese <i>Asphondylia</i> gall midges (Diptera: Cecidomyiidae) and their species identification by DNA sequencing <b>Nami Uechi</b></p> <p>Morphology and a preliminary phylogenetic analysis of immatures of Neotropical <i>Asphondyliini</i> genera (Diptera: Cecidomyiidae) <b>Dalton De Souza Amorim</b></p> <p>Inter- and intraspecific comparison among <i>Asteralobia</i> gall midges (Diptera: Cecidomyiidae) on <i>Ilex</i> species (Aquifoliaceae): sympatric vs. allopatric speciation <b>Makoto Tokuda</b></p> <p>Zoophagous gall midges of the Italian fauna (Diptera: Cecidomyiidae) <b>Mario Solinas</b></p>
12.30-1.30	<b>LUNCH - Student Union</b>	
1.30-3.00	<p><b>SYMPOSIUM - Digital Diptera: Fly Identification in the New Millennium</b> <b>Steele Building Room 206</b> <b>(Chair: Steve Marshall)</b></p> <p>Fly identification: crisis, revolution or evolution? <b>Steve Marshall</b></p> <p>An interactive key to fly families: from Australia to the world! <b>David Yeates</b></p> <p>Simplified digital photography for museum work <b>Stephen Gaimari</b></p> <p>Identification: some basics and their implications for digital solutions <b>Chris Thompson</b></p> <p>DORSALIS - an interactive key to fruit flies of the <i>Bactrocera</i> (<i>Bactrocera</i>) <i>dorsalis</i> complex <b>Amy Lawson</b></p> <p>Identification of flies (Diptera) and other insects by general audiences using digital technologies: unlimited access to illustrations <b>Riley Nelson</b></p>	<p><b>CONTRIBUTED PAPERS - Systematics of Simuliidae</b> <b>Steele Building Room 309</b> <b>(Chair: Sixto Coscarón)</b></p> <p>Do the Neotropical <i>Simulium</i> subgenera constitute a monophyletic taxon? <b>Daniel Rafael Miranda-Esquivel</b></p> <p>A cladistic definition of <i>Simulium</i> (<i>Ectemnaspis</i>) and <i>S. (Psilopelmia)</i> subgenera (Diptera: Simuliidae) <b>Sixto Coscarón</b></p> <p>Systematics of black flies (Diptera: Simuliidae) in Thailand <b>Suwannee Phayusasena</b></p> <p>Taxonomic revision and cladistic analysis of <i>Simulium</i> (<i>Hearlea</i>) Vargas, Martínez Palacios &amp; Díaz Nájera (Diptera: Simuliidae) <b>Sixto Coscarón</b></p>
3.00-3.30	<b>REFRESHMENTS - Student Union</b>	
3.30-5.00	<p><b>CONTRIBUTED PAPERS - Phylogeny of Lower Diptera and Lower Brachycera</b> <b>Steele Building Room 206 (Chair: Brad Sinclair)</b></p> <p>From polyphyly to biogeography of Thereva (Asiloidea: Therevidae) <b>Kevin Holston</b></p> <p>New molecular and morphological evidence for the phylogenetic placement of <i>Phycini</i> and <i>Xestomyzini</i> (Diptera, Therevidae) <b>Martin Hauser</b></p> <p>The Exoprosopini, Australia and the world: revelations from systematic studies <b>Christine Lambkin</b></p> <p>A phylogenetic analysis of Bibionidae <b>Scott Fitzgerald</b></p> <p>The main clades of Sciaridae (Diptera) <b>Pekka Vilkkamaa</b></p>	
5.00-6.00	<b>OPEN COUNCIL MEETING Steele Building Room 206</b>	
6.00-7.00	<b>HAPPY HOUR - FREE EVENING</b>	

Time

THURSDAY 3 OCTOBER

8.10-8.50	<b>PLENARY SPEAKER</b> - <i>Steele Building Room 206</i> The Evolution of Segmentation and Body Patterning <a href="#">Nipan Patel</a> , <i>University of Chicago</i> (Chair: Brad Sinclair)		
9.00-10.30	<b>WORKSHOP - Development</b> (Chair: David Merritt) and <b>SYMPOSIUM - The Genetics of Biological Invasions</b> (Chair George Roderick) <i>Steele Building Room 206</i>	<b>CONTRIBUTED PAPERS - African Diptera: Biogeography and Gondwanaland</b> <i>Steele Building 309</i> (Chair: Ashley Kirk-Spriggs)	<b>WORKSHOP - Biology of Calliphoridae and Sarcophagidae</b> <i>Steele Building Room 324</i> (Chair: James Wallman)
	Evolution of embryonic axis specification in Diptera <b>Urs Schmidt-Ott</b>  Influential Passengers: Inherited <i>Wolbachia</i> infections of insects <b>Scott O'Neill</b>  <b>10 Minute break before next Session</b>  <b>SYMPOSIUM - The Genetics of Biological Invasions</b>  Introduction <b>George Roderick</b>  Genetic tools for studying invasive Diptera <b>Andrew Bohonak</b>  Tracking the spread of the invasive horn and buffalo flies, <i>Haematobia irritans irritans</i> and <i>H. i. Exigua</i> , using cytochrome oxidase I and <i>Wolbachia</i> <b>Rosanna Giordano</b> (Presented by Adrian Pont)	The biogeographical relationships of the Acroceridae of Africa, Madagascar and South America <b>Evert Schlinger</b>  New insights into the palaeogeography and breakup of Gondwana, and some associated biogeographical topics <b>Brian Stuckenberg</b>  African biogeography patterns - an introduction <b>Ashley Kirk-Spriggs</b>  The distributional patterns for neotropical / afrotropical / australo-oriental <i>Simulium</i> Latreille (Diptera: Simuliidae) subgenera <b>Daniel Rafael Miranda-Esquivel</b>  Biogeography of Afrotropical Chironomidae (Diptera) <b>Torbjorn Ekrem</b>  The phylogenetic relationships of <i>Archaeochlus</i> Brundin, <i>Austrochlus</i> Cranston and <i>Afrochlus</i> Freeman (Diptera: Nematocera), basal chironomid genera with a Gondwanan connection <b>Jon Martin</b>	Phylogeny of Chrysomyine blow flies <b>Hiromu Kurahashi</b>  Biodiversity of sarcophagid, calliphorid and muscid flies (Diptera) of Sundarbans Biosphere Reserve, India <b>Bhanu Chandra Nandi</b>  The evolution of ectoparasitism in calliphorid blowflies <b>Jamie Stevens</b>  Flesh flies (Sarcophagidae) from southern Appalachian mountain summits: rare species, rare sites, and human encroachment <b>Greg Dahlem</b>  Molecular systematics and identification of Australian carrion-breeding blowflies <b>James Wallman</b>
10.30-11.00	<b>REFRESHMENTS - Student Union</b>		
11.00-12.30	<b>SYMPOSIUM - The Genetics of Biological Invasions</b> <i>Steele Building Room 206</i> (Chair: George Roderick)	<b>CONTRIBUTED PAPERS - African Diptera: Biogeography and Gondwanaland</b> <i>Steele Building Room 309</i> Chair: Ashley Kirk-Spriggs)	<b>WORKSHOP - Biology of Calliphoridae and Sarcophagidae</b> <i>Steele Building Room 324</i> (Chair: James Wallman)
	Medfly ( <i>Ceratitis capitata</i> ) bioinvasions of California <b>Giulliano Gasperi</b>  Inferring the source of outbreak populations of Queensland fruit fly <b>Stuart Gilchrist</b>  Diptera invasions in South Pacific islands: consequences for public health <b>Neil Davies</b>  Are flies model insect invaders? Genetics, ecology, behavior, and adaptation <b>George Roderick</b>	The present state of taxonomy and biogeography of the Heleomyzidae and Trixoscelididae in the Afrotropical Region. <b>A.J. Woznica</b> (Presented by Ashley Kirk-Spriggs)  Zoogeographical distribution of Afrotropical species of <i>Atherigona</i> Rondani (Diptera: Muscidae) <b>Michael Chidoze Dike</b>  Southern African Empidoidea (Diptera): phylogenetic patterns and biogeographic implications <b>Bradley Sinclair</b>  African Mythicomysiidae (Diptera) - biogeographic Implications of a	<i>Sarcophaga megafilosia</i> and <i>S. meiofilosia</i> : flesh fly parasitoids of marine snails in Central Queensland mangroves <b>Thomas Pape</b>  The joint post feeding radial larval dispersal in flies of genus <i>Chrysomya</i> : weight, depth and distance for pupation <b>Leonardo Gomes</b>

	diverse group of flies <b>Neal Evenhuis</b>		
12.30-1.30	<b>LUNCH - Student Union</b>		
1.30-3.00	<p><b>CONTRIBUTED PAPERS - Phylogeny of Cyclorrhapha Steel Building Room 206 (Chair: Christine Lambkin)</b></p> <p>The main clades of the Sphaeroceridae (Diptera) <b>Natalia Kuznetzova</b></p> <p>Stirring the classification of Sphaeroceroidea or Heteromyzoidea <b>David McAlpine</b></p> <p>Relationships and limits of the Pyrgotidae (Diptera: Schizophora: Tephritoidea) <b>Valery Korneyev</b></p> <p>Aiming for a phylogenetic classification of the Lauxanioidae <b>Stephen Gaimari</b></p> <p>Towards a phylogenetic classification of Syrphidae (Diptera) <b>Sergey Kuznetzov</b></p>	<p><b>CONTRIBUTED PAPERS - Systematics of Lower Diptera Steel Building Room 309 (Chair: Greg Courtney)</b></p> <p>A re-examination of the 'Chaoboriform' genera (Diptera: Chaoboridae) using larval morphological characters <b>Joshua Ogawa</b></p> <p>The position of the subfamily Bruchomyiinae in the family Psychodidae <b>Ruediger Wagner</b></p> <p>Austrochironomus, a subgenus of <i>Chironomus</i> Meigen (Diptera: Chironomidae) <b>Masaru Yamamoto</b></p> <p>Towards a phylogeny of <i>Tanytarsus</i> van der Wulp. Is morphology alone sufficient to reconstruct the genealogical relationships between species in Chironomidae? <b>Torbjorn Ekrem</b></p> <p>Revision of <i>Wyeomyia</i> (<i>Hystatomyia</i>) Dyar &amp; Knab (Diptera: Culicidae) <b>Jessica Adkins</b></p>	<p><b>WORKSHOP - Empidoidea Steel Building Room 324 (Marc Pollett)</b></p> <p>Dolichopodidae in the canopy of lowland primary rainforest on the north coast of Papua New Guinea <b>Patrick Grootaert</b></p> <p>Species groups within the genus <i>Hilara</i> (Empididae) in New Zealand <b>Ian Andrew</b></p> <p>The ultrastructure and function of the silk-producing basitarsus in the <i>Hilarini</i> (Diptera: Empididae) <b>James Young</b></p> <p>A new species of <i>Nemedina</i> Chandler from mid-Asia (Diptera: Empidoidea) resolves the phylogenetic position of this enigmatic genus <b>Bradley Sinclair</b></p> <p>Systematics of Nearctic <i>Platypalpus</i> Macquart (Empidoidea: Tachydromiinae) <b>Jeffrey Cumming</b></p>
3.00-3.30	<b>REFRESHMENTS - Student Union</b>		
3.30-5.00	<p><b>CONTRIBUTED PAPERS - Systematics of Eremoneura Steel Building Room 206 (Chair: Margaret Schneider)</b></p> <p>Recent advances in the study of the Asteiidae <b>Amnon Freidberg</b></p> <p>A new look at the Milichiidae, and a revision of <i>Litometopa</i> Sabrosky (Diptera, Schizophora) <b>Irina Brake</b></p> <p>Cladistic analysis of the genus <i>Ceratitis</i> MacLeay (Diptera, Tephritidae) <b>Marc De Meyer</b></p> <p>A revision of <i>Asilostoma</i> Hendel, 1925 (Diptera, Lauxaniidae) <b>Vera Cristina Silva</b></p> <p>Taxonomic revision of the Afrotropical species of the Eudorylini (Diptera: Pipunculidae) with discussion on special male genital characters <b>Mihaly Foldvari</b></p>	<p><b>CONTRIBUTED PAPERS - General Medical and Veterinary Entomology Steel Building Room 309 (Chair: Marlene Elson-Harris)</b></p> <p>Biology and ecology of sand flies in new Z.C.L. foci in Semnan province, Iran <b>Hadi Vatani</b></p> <p>New World screwworm sex pheromone: isolation and synthesis <b>David Carlson</b></p> <p>Risk-spreading larviposition behaviour of nasopharyngeal <i>Cephenemyia</i> (Diptera: Oestridae) parasites of deer <b>John Anderson</b></p> <p>Host specific oestrids of deer repelled by non-host odours <b>John Anderson</b></p> <p>Ecology of sandflies in the main central foci of zoonotic cutaneous leishmaniasis of Iran <b>Yaghoobi-Ershadi</b></p>	<p><b>WORKSHOP - Empidoidea Steel Building Room 309 (Chair: Marc Pollett)</b></p> <p>Phylogenetic relationships within the Empidinae (Empididae) <b>Christophé Daugeron</b></p> <p>The world fauna of <i>Rhamphomyia</i> (<i>Megacyttarus</i>) <b>Miroslav Bartak</b></p> <p>Preliminary results of a revision of the Neotropical Neurigoninae (Dolichopodidae) <b>Stefan Naglis</b></p> <p>Cladistic relationships of the subfamily Dolichopodinae <b>Scott Brooks</b></p> <p>An overview of recent ecological research on</p>

	New concepts of Conopinae (Diptera: Conopidae) <b>Margaret Schneider</b>	Biological and natural control of African schistosomiasis host snails by predatory sciomyzid fly larvae <b>Ray Miller</b>  Studies on the anti-bloodsucking measure against <i>Hirosia iyoensis</i> (Tabanidae) by tracking methods <b>Mamoru Watanabe</b>	Dolichopodidae in Flanders (Belgium) <b>Marc Pollet</b>
<b>CONFERENCE DINNER ON RIVER QUEEN</b> <b>Coaches Depart Kings College at 6.15pm      Coaches Depart River Queen at 10.30pm</b>			

Time	FRIDAY 4 OCTOBER	
8.10-8.50	<b>PLENARY SPEAKER</b> - Steele Building Room 206 Mosquito-borne disease in Australia - an increasing concern? <b>Richard Russell, University of Sydney (Chair: Scott O'Neill)</b>	
09.00-10.30	<b>CONTRIBUTED PAPERS - Medical and Veterinary Entomology: Mosquitoes</b> <b>Steele Building Room 206</b> <b>(Chair: Des Foley)</b>	<b>SYMPOSIUM - Cataloguing and Databasing</b> <b>Steele Building Room 309</b> <b>(Chair: Thomas Pape)</b>
	<p>Molecular identification of <i>Anopheles</i> and <i>Culex</i> mosquitoes <b>Cathy Walton</b></p> <p>Mosquito control in Brisbane City <b>Mike Muller</b></p> <p>Induced immunity against haemolymph proteins of <i>Anopheles stephensi</i>: effects on fecundity of mosquito and transmission blocking of malaria parasites <b>Surendra Gakhar</b></p> <p>Insights into the population structure of the southwest Pacific malaria vector <i>Anopheles farauti</i> 2 (Diptera: Culicidae) by following ribosomal DNA spacer polymorphisms <b>Nigel Beebe</b></p> <p>Molecular characterisation and species distribution of the <i>Anopheles maculipennis</i> complex in Iran <b>Mehdi Sedaghat</b></p> <p>Effects of three plant extracts on eggs and larval development of <i>Culex pipiens</i> L. <b>Ahmed Zaitoun</b></p>	<p><b>Keynote Address</b> Diptera: Discovery and Dissemination in a Digital Domain (D5) <b>Chris Thompson</b></p> <p>Embracing specimen-level databases: expectations and anxieties! <b>Michael Irwin</b></p> <p>Meeting the interrelated challenges of specimen, nomenclature, and literature tracking with Mandala <b>Gail Kampmeier</b></p>
10.30-11.00	<b>REFRESHMENTS - Student Union</b>	
11.00-12.30	<b>CONTRIBUTED PAPERS - Medical and Veterinary Entomology: Mosquitoes (continued)</b> <b>(Chair: Des Foley)</b> and <b>CONTRIBUTED PAPERS - Forensic Entomology</b> <b>(Chair: Ian Dadour)</b> <b>Steele Building room 206</b>	<b>SYMPOSIUM - Cataloguing and Databasing</b> <b>Steele Building Room 309</b> <b>(Chair: Thomas Pape)</b>
	<p>Botanical management of filarial vector, <i>Culex quinquefasciatus</i> Say <b>Kadarkarai Murugan</b></p> <p>Evaluation of the effect of exposure to tannic acid and the entomopathogenic fungus <i>Beauveria bassiana</i> on the ecological competence of <i>Anopheles stephensi</i> <b>Mohammad Saaid Dayer</b></p> <p style="text-align: center;"><b>10 minute break before start of next session</b></p> <p style="text-align: center;"><b>CONTRIBUTED PAPERS - Forensic Entomology</b></p> <p>A preliminary survey of forensically important Diptera in Victoria, Australia <b>Melanie Archer</b></p>	<p>Collection management and databasing at the Entomology Department of INBio, Costa Rica. <b>Manuel Zumbado</b></p> <p>Mining the Dipteran genome: tools and resources from GenBank/EMBL and NCBI <b>Brian Wiegmann</b></p> <p>Fauna Europaea - the Diptera component <b>Thomas Pape</b></p> <p>Databasing European Dolichopodidae (Diptera) in the frame of Fauna Europaea <b>Marc Pollet</b></p>

	<p>Morphological and molecular identification of forensically important blow fly species (Diptera: Calliphoridae) from Taiwan <b>Shiuh-Feng Shiao</b></p> <p>Blowflies associated with pig carcasses exposed in different environments and altitudes in Southeastern Brazil. <b>Aricio Linhares</b></p> <p>The humble maggot in the 21st Century, a compendium of information <b>Ian Dadour</b></p>	<p>Asilidae database - content, structure and accessibility <b>Torsten Dikow</b></p> <p>A World catalogue of Pallopteridae (Diptera) <b>Bernhard Merz</b></p> <p>Catalogue of the Craneflies of the World with a note on the work by C.P. Alexander (author of 11559 crane fly names) <b>Pjotr Oosterbroek</b></p>
12.45-1.15	<b>CLOSING CEREMONY, AWARDING OF PRIZES AND INVITATION TO NEXT CONGRESS</b>	
1.15-2.15	<b>LUNCH - <i>Student Union</i></b>	

***Information Disclaimer: The speakers, topics and times are correct at the time of publishing. In the event of unforeseen circumstances, the organisers reserve the right to alter or delete items from the Congress Program***



# 5th International Congress of Dipterology Provisional Program

[Sunday 29 September](#) | [Monday 30 September](#) | [Tuesday 1 October](#) | [Wednesday 2 October](#) | [Thursday 3 October](#) | [Friday 4 October](#)

Time	SUNDAY 29 SEPTEMBER
	<b>4.00pm - REGISTRATION</b>
	<b>5.00pm - 7.00pm - WELCOME DRINKS - <i>Student Union Heath/Holt Rooms</i></b> <b>6pm Welcome Address by David Yeates "Blowies, Mossies and the Great Aussie Salute"</b>

Time	MONDAY 30 SEPTEMBER				
8.00 -	REGISTRATION				
9.00-9.30	<b>WELCOME and OPENING ADDRESS - <i>Steele Building Room 206</i></b> Welcome by David Yeates (Chair) Welcome to University of Queensland by Professor David Siddle (Deputy Vice-Chancellor (Research), University of Queensland) Geoff Garrett (CEO, CSIRO)				
9.30-10.30	<b>SYMPOSIUM - The Influence of Modern Innovations on Systematic Inquiry, with Emphasis on Diptera (Chair: Mike Irwin)</b> The influence of modern innovations on systematic inquiry, with emphasis on Diptera <b>Michael Irwin</b> Phylogenetic assessment: the advent of the Hennigian Philosophy <b>Rudolf Meier</b> Molecular biology: a set of new characters for phylogenetic assessment <b>Brian Wiegmann</b> Modern innovations in systematic inquiry <b>Christine Lambkin</b>				
10.30-11.00	<b>REFRESHMENTS - <i>Student Union</i></b>				
11.00-12.30	Bioinformatics and the manipulation of biological information <b>Jim Croft</b> Web-based description and identification - what tools do we need? <b>Kevin Thiele</b> Geographical information systems: the spatial patterning of life <b>David Peters</b> Interpreting the fossil record of Diptera: the temporal patterning of life <b>David Grimaldi</b> Interpreting spatio-temporal patterns among select clades of Diptera <b>Evert Schlinger</b> The urgency to make all life known <b>Ian Cresswell</b>				
12.30-1.30	<b>LUNCH - <i>Student Union</i></b>				
1.30-3.00	<table border="1"> <tbody> <tr> <td> <b>SYMPOSIUM - The Influence of Modern Innovations on Systematic Inquiry with Emphasis on Diptera (continued) (Chair: Mike Irwin)</b> and <b>SYMPOSIUM - Diptera in Biodiversity and Conservation 1 (Chair: Rudolf Meier)</b> <b><i>Steele Building Room 206</i></b> </td> <td> <b>WORKSHOP - Hornfly Management and Resistance</b> <b><i>Steele Building Room 309</i></b> <b>(Chair: Lane Foil)</b> </td> </tr> <tr> <td>Diptera: a lot of flies yet to be discovered <b>Chris Thompson</b></td> <td>An overview of Horn Fly (Diptera: Muscidae) resistance surveys and research programs in the United States <b>Fred Knapp</b></td> </tr> </tbody> </table>	<b>SYMPOSIUM - The Influence of Modern Innovations on Systematic Inquiry with Emphasis on Diptera (continued) (Chair: Mike Irwin)</b> and <b>SYMPOSIUM - Diptera in Biodiversity and Conservation 1 (Chair: Rudolf Meier)</b> <b><i>Steele Building Room 206</i></b>	<b>WORKSHOP - Hornfly Management and Resistance</b> <b><i>Steele Building Room 309</i></b> <b>(Chair: Lane Foil)</b>	Diptera: a lot of flies yet to be discovered <b>Chris Thompson</b>	An overview of Horn Fly (Diptera: Muscidae) resistance surveys and research programs in the United States <b>Fred Knapp</b>
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	<p>Discovering and managing the patterns of life - from RAM to rammed earth: a perspective from UNESCO <b>Ian Cresswell</b></p> <p>Concluding remarks, questions and discussion: Panel of Speakers <b>David Yeates</b></p> <p><b>2.15pm SYMPOSIUM - Diptera in Biodiversity and Conservation 1</b></p> <p>Guild analyses in the study of dipteran biodiversity; a rationale and critique <b>Roger Kitching</b></p> <p>Diptera diversity on tree trunks <b>Daniel Bickel</b></p> <p>Australian glowworms (Diptera: Keroplatidae: <i>Arachnocampa</i> Spp.): identity, diversity, and management <b>Claire Baker</b></p>	<p>Field surveys of insecticide resistance in Australian buffalo fly <i>Haematobia irritans exigua</i> De Meijere (Diptera: Muscidae) <b>Bill Farnsworth</b></p> <p>A summary of studies on the economic impact of horn flies <b>Jerry Hogsette</b></p> <p>Management and resistance of horn fly and buffalo fly: diagnostic techniques for metabolic resistance <b>John Pruett</b></p> <p>Management and resistance of horn fly and buffalo fly: diagnostic techniques for target site resistance <b>Felix Guerrero</b></p> <p>Movement of horn flies among cattle herds <b>Ronnie Byford</b></p>	
3.00-3.30	<b>REFRESHMENTS - Student Union</b>		
3.30-5.00	<p><b>SYMPOSIUM - Diptera in Biodiversity and Conservation 2</b> <b>Steele Building Room 206</b> <b>(Chair: Dan Bickel)</b></p> <p>Antler flies (Phytalmia, Tephritidae) are fascinating, but not bioindicators <b>Gary Dodson</b></p> <p>Sedges, mud and myriads of flies: the brachyceran fauna of sedge meadows in southern Canada <b>Frederic Beaulieu</b></p> <p>Chironomid communities (Diptera, Chironomidae) in cold alpine springs. Prospect for a long-term biomonitoring <b>Elisabeth Stur</b></p> <p>The dipteran fauna of a Central European mountain stream <b>Ruediger Wagner</b></p> <p>The method of the evaluation of antropogenic changes in the environment by means of the family Chloropidae (Diptera). <b>Stepan Kubik</b></p> <p>Habitat modification and dipteran biodiversity in central New Zealand <b>Ian Andrew</b></p> <p>Biodiversity patterns in Neotropical dolichopodid faunas (Diptera: Dolichopodidae) <b>Marc Pollet</b></p> <p>Status and geographical distribution of three endangered Karelian keroplatids (Diptera: Keroplatidae) <b>Dimitri Bartenev</b></p>	<p><b>WORKSHOP - Hornfly Management and Resistance</b> <b>Steele Building Room 309</b> <b>(Chair: Lane Foil)</b></p> <p>Behaviour-modifying systems for the control of buffalo fly, <i>Haematobia irritans exigua</i> de Meijere (Diptera: Muscidae) <b>Rudolf Urech</b></p> <p>Control of the horn fly and buffalo fly - past, present and future chemistries and strategies <b>John Riner</b></p> <p>The use of endectocides for horn fly control <b>James Hawkins</b></p> <p>Strategies for managing horn fly, <i>Haematobia irritans</i>, resistance <b>Lane Foil</b></p>	<p><b>WORKSHOP - Sciomyzidae</b> <b>Steele Building Room 324</b> <b>(Chair: Lloyd Knutson)</b></p> <p>The struggle over reconstructing the phylogenetic relationships of the Sciomyzoidea (Diptera) <b>Rudolf Meier</b></p> <p>Morphodiversity and biodiversity in <i>Sepedon</i> Latreille and related genera: a lineage, a tribe, or a subfamily? (Diptera: Sciomyzidae) <b>Lloyd Knutson</b></p> <p><i>Sepedon knutsoni</i>, a second oligochaete feeding sciomyzid from Africa <b>Jean-Claude Vala</b></p> <p>Predation and trail-following behaviour in selected marsh fly species (Diptera: Sciomyzidae) <b>Rory Mc Donnell</b></p>
5.00 -	<b>HAPPY HOUR / POSTER VIEWING - POSTER AUTHORS TO BE PRESENT</b> <i>Student Union Heath/Holt Rooms</i> FREE EVENING		

Time	TUESDAY 1 OCTOBER		
8.00 -	REGISTRATION		
8.10-8.50	<b>PLENARY SPEAKER</b> - <i>Steele Building Room 206</i> Phylogenetic relationships of nematocerous Diptera: synopsis of recent hypotheses <a href="#">Greg Courtney, Iowa State University</a> (Chair: <b>Monty Wood</b> )		
9.00-10.30	<b>SYMPOSIUM - Multiple Data Set Analyses for Dipteran Phylogenetics</b> <i>Steele Building Room 206</i> (Chair: <b>Brian Wiegmann</b> )	<b>SYMPOSIUM - Sperm Olympics: Sperm Competiton, Cryptic Female Choice and Mating Behaviour in Diptera</b> <i>Steele Building Room 309</i> (Chair: <b>Marion Kotrba</b> )	<b>WORKSHOP - Muscidae, Anthomyiidae</b> <i>Steel Building Room 324</i> (Chair: <b>Adrian Pont</b> )
	<p>A genomic approach to phylogenetics: multiple gene systematics of the Drosophilidae <b>Patrick O'Grady</b></p> <p>Significant incongruence can be informative: insights from partitioned support analyses <b>Christine Lambkin</b></p> <p>Genes, fossils and morphology: combined data analysis and a revised time scale for higher-level phylogeny of the Brachycera <b>Brian Wiegmann</b></p> <p>Molecular and morphological evidence supporting relationships within Eremoneura: focus on Cyclorrhapha <b>Jeff Skevington</b></p> <p>Multiple data sets in addressing complex evolutionary questions within Diptera: case studies within Empidoidea and Simuliidae <b>John Moulton</b></p> <p>In search of an outgroup for the Tanyderidae (Diptera): conflict or congruence? <b>Darlene Judd</b></p>	<p>The female reproductive tract in Diptera I: an introduction <b>Marion Kotrba</b></p> <p>The female reproductive tract in Diptera II: morphological diversity and details of the female reproductive tract in acalyptrate Schizophora <b>Marion Kotrba</b></p> <p>Female remating, operational sex ratio, and the arena of sexual selection <b>Therese Markow</b></p> <p>The labyrinth explored: female sperm storage organs, related structures, and sperm storage patterns in the tephritid fly, <i>Anastrepha suspensa</i>. <b>Ann Fritz</b></p> <p>Female remating, sperm displacement, remating speed, fertility, <i>Drosophila ananassae</i> <b>Shree Ram Singh</b></p> <p>Non-antagonistic reproductive interactions between the sexes: offsetting the load of sexual conflict <b>Lacey Knowles</b></p>	<p>Diversity and taxonomy of catkin flies (Egle, Anthomyiidae) <b>Graham Griffiths</b></p> <p>The plumosa group of Hydrophoria (Anthomyiidae) <b>Masaaki Suwa</b></p> <p>A cladistic analysis of the Muscidae: first results - and problems <b>Adrian Pont</b></p> <p>Muscidae (Diptera) of the Neotropical Region: taxonomy of the basal groups <b>Claudio Carvalho</b></p> <p>Muscidae (Diptera) of the Neotropical Region - taxonomy of the apical groups <b>Mrcia Couri</b></p> <p>A molecular phylogeny of the <i>Stomoxys</i> group based on cytochrome oxidase I. (Presented by Adrian Pont) <b>Rosanna Giordano</b></p>
10.30-11.00	<b>REFRESHMENTS - Student Union</b>		
11.00-12.30	<b>SYMPOSIUM - Multiple Data Set Analyses for Dipteran Phylogenetics (continued)</b> (Chair: <b>Brian Wiegmann</b> ) and <b>SYMPOSIUM - Diptera in Biodiversity and Conservation 3</b> (Chair: <b>Rudolf Meier</b> ) <i>Steele Building Room 206</i>	<b>WORKSHOP - Muscidae, Anthomyiidae</b> <i>Steele Building Room 324</i> (Chair: <b>Adrian Pont</b> )	
	<p>Multiple data sets and syrphid phylogenetics <b>Gunilla Stahls-Makela</b></p> <p>Phylogeny of Syrphinae (Diptera, Syrphidae) on the basis of morphological and molecular characters <b>Heikki Hippa</b></p>	<p>Phylogeny of the genus <i>Thricops</i> Rondani (Diptera: Muscidae) based on molecular and morphological evidence. <b>Jade Savage</b></p> <p>Distributional pattern of Muscidae in the Neotropical Region - a preliminary approach <b>Claudio Carvalho</b></p>	

	<p>Combining molecular and morphological data for Sepsidae, Coelopidae, and Diopsidae: More conflict than congruence <b>Rudolf Meier</b></p> <p>Phylogeny of the small headed-flies (Diptera: Acroceridae) using multiple molecular markers <b>Shaun Winterton</b></p> <p><b>15 minute break before start of next session</b></p> <p><b>SYMPOSIUM - Diptera in Biodiversity and Conservation 3</b></p> <p>An estimate of dipteran species- richness in Australia <b>David Yeates</b></p>	<p>Comparison of the cuticular hydrocarbons of 7 <i>Musca</i> spp. worldwide (Diptera: Muscidae) <b>David Carlson</b></p>	
12.30-1.30	<b>LUNCH - Student Union</b>		
1.30-3.00	<p><b>SYMPOSIUM - Diptera in Biodiversity and Conservation 3</b> <b>Steele Building Room 206</b> <b>(Chair: Rudolf Meier)</b></p>	<p><b>WORKSHOP - Management of Tephritidae</b> <b>Steele Building room 309</b> <b>(Chair: Dick Drew)</b></p>	<p><b>WORKSHOP - Systematics and Ecology of Oestroidea + Hippoboscoidea</b> <b>Steele Building Room 324</b> <b>(Chair: James O'Hara)</b></p>
	<p>Nearctic Diptera: what we know and what we do not <b>Chris Thompson</b></p> <p>The Afrotropical Diptera - an overview <b>Brian Stuckenberg</b></p> <p>Neotropical Diptera biodiversity: an overview <b>Dalton De Souza Amorim</b></p> <p>Dipteran biodiversity of the Galapagos Islands (Ecuador) <b>Bradley Sinclair</b></p> <p>Hawaii as a Diptera biodiversity Hot Spot: a helluva lot of halteres in the Hawaiian Islands <b>Neal Evenhuis</b></p> <p>New Zealand Diptera: diversity and scope for further studies <b>Rod Macfarlane</b></p>	<p>Antlered Flies (Tephritidae: <i>Phytalmia</i>) of New Guinea and Australia <b>Gary Dodson</b></p> <p>Sexual selection in a tropical fruit fly: role of a plant derived chemical in mate choice <b>S Raghu</b></p> <p>Geographical distribution and seasonal abundance of pest fruit flies in Papua New Guinea <b>David Putulan</b></p> <p>Polytene chromosome analysis, esterase isozyme and Larval Serum Protein (LSP) banding patterns in the melon fly <i>Bactrocera cucurbitae</i> Coq. (Diptera: Tephritidae) with reference to irradiation treatment <b>Farzana Yesmin</b></p>	<p>Advances in the phylogenetics of the Tachininae (Tachinidae) <b>James O'Hara</b></p> <p>A review of New World Zaira Robineau-Desvoidy (Diptera; Tachinidae; Blondeliini) <b>Dan Hansen</b></p> <p>Louse-flies (Diptera: Hippoboscidae) in the Central Black Soil Region of Russia <b>Sergey Gaponov</b></p>
3.00-3.30	<b>REFRESHMENTS - Student Union</b>		
3.30-5.00	<p><b>SYMPOSIUM - Diptera in Biodiversity and Conservation 4</b> <b>Steele Building Room 206</b> <b>(Chair: Dan Bickel)</b></p>	<p><b>WORKSHOP - Agromyzidae</b> <b>Steele Building Room 309</b> <b>(Chair: David Henshaw)</b></p>	
	<p>Assessing species richness of Diptera using museum collections <b>Frederik Petersen</b></p> <p>Extrapolating from the observed species richness in a revision to its 'true' species diversity. A case study using <i>Euscelidia</i> (Asilidae: Diptera) <b>Torsten Dikow</b></p> <p>Spectacular diversity in <i>Cladochaeta</i> (Drosophilidae): anomalous or typical for Neotropical acalyptrate flies? <b>David Grimaldi</b></p>	<p><b>Tribute to Kenneth Spencer</b></p> <p>The phylogeny of Agromyzidae inferred from morphological characters <b>Martin Dempewolf</b></p> <p>Mine density, parasitism and emergence of the leafminers, <i>Liriomyza cicerina</i> (Rondani) and <i>Liriomyza bryoniae</i> (Kalt.) (Diptera: Agromyzidae), and parasitoids on broad beans in Egypt. <b>Samir El-Serwy</b></p>	

	<p>Why are there so many genera of Chloropidae? <b>Terry Wheeler</b></p> <p>The diversity of neotropical Micropezidae <b>Steve Marshall</b></p> <p>Biodiversity studies of Namibian Diptera - a developing country approach <b>Ashley Kirk-Spriggs</b></p>	<p>Seasonal fluctuations of the wheat leafminer, <i>Agromyza nigrella</i> (Rondani) (Diptera: Agromyzidae), and parasitism in Lower and Middle Egypt. <b>Samir El- Serwy</b></p> <p>Revision of nearctic species of Cerodontha (Cerodontha) (Diptera: Agromyzidae) with additional notes on other subgenera <b>Stephanie Boucher</b></p> <p>A CD-ROM on Agromyzidae of economic significance <b>Martin Dempewolf</b></p> <p>Feeding habits and the so called phytophagy of Chloropidae (Diptera) <b>Michael von Tschirnhaus</b></p>
7.00	<b>DINNER AT AUSTRALIAN WOOLSHED Coaches depart from Kings College 6.15pm Coaches depart Woolshed at 10.30pm</b>	

Time	WEDNESDAY 2 OCTOBER	
8.10-8.50	<b>PLENARY SPEAKER - Steele Building Room 206</b> The fossil history of associations between the Diptera and other organisms <a href="#">Conrad Labandeira</a> , <b>Smithsonian Institution (Chair: Brian Stuckenberg)</b>	
09.00-10.30	<p><b>CONTRIBUTED PAPERS - Fossils and Biogeography</b> (Chair: <a href="#">Conrad Labandeira</a>) and <b>CONTRIBUTED PAPERS - Evolution and Biology</b> (Chair: <a href="#">Gary Taylor</a>) <b>Steele Building Room 206</b></p>	<p><b>CONTRIBUTED PAPERS - Behaviour and Physiology</b> <b>Steele Building Room 309</b> (Chair: <a href="#">Gary Dodson</a>)</p>
	<p>Origin of main evolutionary lineages of the Diptera - fossil evidences <b>Wieslaw Krzeminski</b></p> <p>How recent are the Empidoidea of Baltic amber? <b>Hans Ulrich</b></p> <p>Amphipacific disjunctions in net-winged midges (Diptera: Blephariceridae) <b>Peter Zwick</b></p> <p><b>15 Minute break before start of next session</b></p> <p><b>CONTRIBUTED PAPERS - Evolution and Biology</b></p> <p>The Fergusoninidae: co-evolution between gall-flies, nematodes and their myrtaceous hosts. <b>Gary Taylor</b></p> <p>New Zealand robber flies: phenology and biogeography <b>Rod Macfarlane</b></p>	<p>Regulation of bioluminescence in Australian glow-worms <b>David Merritt</b></p> <p>Chemical cues regulate oviposition site selection in the midge <i>Chironomus tepperi</i> Skuse (Chironomidae) <b>Mark Stevens</b></p> <p>Different female ovipositing strategies in tephritid species of the family Tephritidae (Diptera) in <i>Centaurea scabiosa</i> (Asteraceae) - central Europe <b>Judita Kinkorova</b></p> <p>Flies that attack polymorphic snails on coloured backgrounds: selection for crypsis by a sarcophagid parasitoid of the marine snail <i>Littoraria filosa</i> <b>Steve McKillup</b></p>
10.30-11.00	<b>REFRESHMENTS - Student Union</b>	
11.00-12.30	<p><b>CONTRIBUTED PAPERS - Evolution and Biology</b> <b>Steele Building Room 206</b> (Chair: <a href="#">Gary Taylor</a>)</p>	<p><b>WORKSHOP - Cecidomyiidae</b> <b>Steele Building Room 309</b> (Chair: <a href="#">Junichi Yukawa</a>)</p>
	<p>Evolution of the sclerotised plant-piercing oviscapt in <i>Thrypticus</i> (Diptera: Dolichopodidae) <b>Daniel Bickel</b></p> <p>Do Wolbachia infections obscure phylogeographic patterns of the European cherry fruit fly? <b>Markus</b></p>	<p>Facultative competition between two gall-midge species (Cecidomyiidae) on <i>Suaeda monoica</i> (Chenopodiaceae) <b>Netta Dorchin</b></p> <p>Synchronization of gall midge emergence with host plant phenology <b>Junichi Yukawa</b></p>

	<p><b>Riegler</b></p> <p>Fly pollination and plant breeding systems: are flies good pollinators? <b>Chris Borkent</b></p> <p>On the natural history and all life-history stages of the only European stalk-eyed fly, <i>Sphyracephala europaea</i> (Diopsidae: Diptera). <b>Mihaly Foldvari</b></p> <p>The immature stages of soldier-flies (Diptera, Stratiomyidae) in South America - new reports and biodiversity <b>Jose Roberto Pujol Luz</b></p> <p>Sex, flies and videotape: pollination and sexual deception in the Australian terrestrial orchid <i>Pterostylis</i> <b>Joanna Hamilton</b></p> <p>Understanding the evolution of insect: microbe associations using <i>Drosophila melangaster</i> whole genome microarrays <b>Elizabeth McGraw</b></p>	<p>The gall midges (Cecidomyiidae) of <i>Carya</i> (Juglandaceae) in the Nearctic Region <b>Raymond Gagne</b></p> <p>Pupal characteristics of the Japanese <i>Asphondylia</i> gall midges (Diptera: Cecidomyiidae) and their species identification by DNA sequencing <b>Nami Uechi</b></p> <p>Morphology and a preliminary phylogenetic analysis of immatures of Neotropical <i>Asphondyliini</i> genera (Diptera: Cecidomyiidae) <b>Dalton De Souza Amorim</b></p> <p>Inter- and intraspecific comparison among <i>Asteralobia</i> gall midges (Diptera: Cecidomyiidae) on <i>Ilex</i> species (Aquifoliaceae): sympatric vs. allopatric speciation <b>Makoto Tokuda</b></p> <p>Zoophagous gall midges of the Italian fauna (Diptera: Cecidomyiidae) <b>Mario Solinas</b></p>
12.30-1.30	<b>LUNCH - Student Union</b>	
1.30-3.00	<p><b>SYMPOSIUM - Digital Diptera: Fly Identification in the New Millennium</b> <b>Steele Building Room 206</b> <b>(Chair: Steve Marshall)</b></p> <p>Fly identification: crisis, revolution or evolution? <b>Steve Marshall</b></p> <p>An interactive key to fly families: from Australia to the world! <b>David Yeates</b></p> <p>Simplified digital photography for museum work <b>Stephen Gaimari</b></p> <p>Identification: some basics and their implications for digital solutions <b>Chris Thompson</b></p> <p>DORSALIS - an interactive key to fruit flies of the <i>Bactrocera</i> (<i>Bactrocera</i>) <i>dorsalis</i> complex <b>Amy Lawson</b></p> <p>Identification of flies (Diptera) and other insects by general audiences using digital technologies: unlimited access to illustrations <b>Riley Nelson</b></p>	<p><b>CONTRIBUTED PAPERS - Systematics of Simuliidae</b> <b>Steele Building Room 309</b> <b>(Chair: Sixto Coscarón)</b></p> <p>Do the Neotropical <i>Simulium</i> subgenera constitute a monophyletic taxon? <b>Daniel Rafael Miranda-Esquivel</b></p> <p>A cladistic definition of <i>Simulium</i> (<i>Ectemnaspis</i>) and <i>S. (Psilopelmia)</i> subgenera (Diptera: Simuliidae) <b>Sixto Coscarón</b></p> <p>Systematics of black flies (Diptera: Simuliidae) in Thailand <b>Suwannee Phayusasena</b></p> <p>Taxonomic revision and cladistic analysis of <i>Simulium</i> (<i>Hearlea</i>) Vargas, Martínez Palacios &amp; Díaz Nájera (Diptera: Simuliidae) <b>Sixto Coscarón</b></p>
3.00-3.30	<b>REFRESHMENTS - Student Union</b>	
3.30-5.00	<p><b>CONTRIBUTED PAPERS - Phylogeny of Lower Diptera and Lower Brachycera</b> <b>Steele Building Room 206 (Chair: Brad Sinclair)</b></p> <p>From polyphyly to biogeography of Thereva (Asiloidea: Therevidae) <b>Kevin Holston</b></p> <p>New molecular and morphological evidence for the phylogenetic placement of <i>Phycini</i> and <i>Xestomyzini</i> (Diptera, Therevidae) <b>Martin Hauser</b></p> <p>The Exoprosopini, Australia and the world: revelations from systematic studies <b>Christine Lambkin</b></p> <p>A phylogenetic analysis of Bibionidae <b>Scott Fitzgerald</b></p> <p>The main clades of Sciaridae (Diptera) <b>Pekka Vilkkamaa</b></p>	
5.00-6.00	<b>OPEN COUNCIL MEETING Steele Building Room 206</b>	
6.00-7.00	<b>HAPPY HOUR - FREE EVENING</b>	

8.10-8.50	<b>PLENARY SPEAKER - Steele Building Room 206</b> The Evolution of Segmentation and Body Patterning <a href="#">Nipan Patel</a> , <i>University of Chicago</i> (Chair: Brad Sinclair)		
9.00-10.30	<b>WORKSHOP - Development (Chair: David Merritt) and SYMPOSIUM - The Genetics of Biological Invasions (Chair George Roderick) Steele Building Room 206</b>	<b>CONTRIBUTED PAPERS - African Diptera: Biogeography and Gondwanaland Steele Building 309 (Chair: Ashley Kirk-Spriggs)</b>	<b>WORKSHOP - Biology of Calliphoridae and Sarcophagidae Steele Building Room 324 (Chair: James Wallman)</b>
	<p>Evolution of embryonic axis specification in Diptera <b>Urs Schmidt-Ott</b></p> <p>Influential Passengers: Inherited <i>Wolbachia</i> infections of insects <b>Scott O'Neill</b></p> <p><b>10 Minute break before next Session</b></p> <p><b>SYMPOSIUM - The Genetics of Biological Invasions</b></p> <p>Introduction <b>George Roderick</b></p> <p>Genetic tools for studying invasive Diptera <b>Andrew Bohonak</b></p> <p>Tracking the spread of the invasive horn and buffalo flies, <i>Haematobia irritans irritans</i> and <i>H. i. Exigua</i>, using cytochrome oxidase I and <i>Wolbachia</i> <b>Rosanna Giordano</b> (Presented by Adrian Pont)</p>	<p>The biogeographical relationships of the Acroceridae of Africa, Madagascar and South America <b>Evert Schlinger</b></p> <p>New insights into the palaeogeography and breakup of Gondwana, and some associated biogeographical topics <b>Brian Stuckenberg</b></p> <p>African biogeography patterns - an introduction <b>Ashley Kirk-Spriggs</b></p> <p>The distributional patterns for neotropical / afrotropical / australo-oriental <i>Simulium</i> Latreille (Diptera: Simuliidae) subgenera <b>Daniel Rafael Miranda-Esquivel</b></p> <p>Biogeography of Afrotropical Chironomidae (Diptera) <b>Torbjorn Ekrem</b></p> <p>The phylogenetic relationships of <i>Archaeochlus</i> Brundin, <i>Austrochlus</i> Cranston and <i>Afrochlus</i> Freeman (Diptera: Nematocera), basal chironomid genera with a Gondwanan connection <b>Jon Martin</b></p>	<p>Phylogeny of Chrysomyine blow flies <b>Hiromu Kurahashi</b></p> <p>Biodiversity of sarcophagid, calliphorid and muscid flies (Diptera) of Sundarbans Biosphere Reserve, India <b>Bhanu Chandra Nandi</b></p> <p>The evolution of ectoparasitism in calliphorid blowflies <b>Jamie Stevens</b></p> <p>Flesh flies (Sarcophagidae) from southern Appalachian mountain summits: rare species, rare sites, and human encroachment <b>Greg Dahlem</b></p> <p>Molecular systematics and identification of Australian carrion-breeding blowflies <b>James Wallman</b></p>
10.30-11.00	<b>REFRESHMENTS - Student Union</b>		
11.00-12.30	<b>SYMPOSIUM - The Genetics of Biological Invasions Steele Building Room 206 (Chair: George Roderick)</b>	<b>CONTRIBUTED PAPERS - African Diptera: Biogeography and Gondwanaland Steele Building Room 309 Chair: Ashley Kirk-Spriggs)</b>	<b>WORKSHOP - Biology of Calliphoridae and Sarcophagidae Steele Building Room 324 (Chair: James Wallman)</b>
	<p>Medfly (<i>Ceratitis capitata</i>) bioinvasions of California <b>Giulliano Gasperi</b></p> <p>Inferring the source of outbreak populations of Queensland fruit fly <b>Stuart Gilchrist</b></p> <p>Diptera invasions in South Pacific islands: consequences for public health <b>Neil Davies</b></p> <p>Are flies model insect invaders? Genetics, ecology, behavior, and adaptation <b>George Roderick</b></p>	<p>The present state of taxonomy and biogeography of the Heleomyzidae and Trixoscelididae in the Afrotropical Region. <b>A.J. Woznica</b> (Presented by Ashley Kirk-Spriggs)</p> <p>Zoogeographical distribution of Afrotropical species of <i>Atherigona</i> Rondani (Diptera: Muscidae) <b>Michael Chidoze Dike</b></p> <p>Southern African Empidoidea (Diptera): phylogenetic patterns and biogeographic implications <b>Bradley Sinclair</b></p> <p>African Mythicomysiidae (Diptera) - biogeographic Implications of a</p>	<p><i>Sarcophaga megafilosia</i> and <i>S. meiofilosia</i>: flesh fly parasitoids of marine snails in Central Queensland mangroves <b>Thomas Pape</b></p> <p>The joint post feeding radial larval dispersal in flies of genus <i>Chrysomya</i>: weight, depth and distance for pupation <b>Leonardo Gomes</b></p>

		diverse group of flies <b>Neal Evenhuis</b>	
12.30-1.30	<b>LUNCH - Student Union</b>		
1.30-3.00	<p><b>CONTRIBUTED PAPERS - Phylogeny of Cyclorrhapha Steel Building Room 206 (Chair: Christine Lambkin)</b></p> <p>The main clades of the Sphaeroceridae (Diptera) <b>Natalia Kuznetzova</b></p> <p>Stirring the classification of Sphaeroceroidea or Heteromyzoidea <b>David McAlpine</b></p> <p>Relationships and limits of the Pyrgotidae (Diptera: Schizophora: Tephritoidea) <b>Valery Korneyev</b></p> <p>Aiming for a phylogenetic classification of the Lauxanioidea <b>Stephen Gaimari</b></p> <p>Towards a phylogenetic classification of Syrphidae (Diptera) <b>Sergey Kuznetzov</b></p>	<p><b>CONTRIBUTED PAPERS - Systematics of Lower Diptera Steel Building Room 309 (Chair: Greg Courtney)</b></p> <p>A re-examination of the 'Chaoboriform' genera (Diptera: Chaoboridae) using larval morphological characters <b>Joshua Ogawa</b></p> <p>The position of the subfamily Bruchomyiinae in the family Psychodidae <b>Ruediger Wagner</b></p> <p>Austrochironomus, a subgenus of <i>Chironomus</i> Meigen (Diptera: Chironomidae) <b>Masaru Yamamoto</b></p> <p>Towards a phylogeny of <i>Tanytarsus</i> van der Wulp. Is morphology alone sufficient to reconstruct the genealogical relationships between species in Chironomidae? <b>Torbjorn Ekrem</b></p> <p>Revision of <i>Wyeomyia</i> (<i>Hystatomyia</i>) Dyar &amp; Knab (Diptera: Culicidae) <b>Jessica Adkins</b></p>	<p><b>WORKSHOP - Empidoidea Steel Building Room 324 (Marc Pollett)</b></p> <p>Dolichopodidae in the canopy of lowland primary rainforest on the north coast of Papua New Guinea <b>Patrick Grootaert</b></p> <p>Species groups within the genus <i>Hilara</i> (Empididae) in New Zealand <b>Ian Andrew</b></p> <p>The ultrastructure and function of the silk-producing basitarsus in the <i>Hilarini</i> (Diptera: Empididae) <b>James Young</b></p> <p>A new species of <i>Nemedina</i> Chandler from mid-Asia (Diptera: Empidoidea) resolves the phylogenetic position of this enigmatic genus <b>Bradley Sinclair</b></p> <p>Systematics of Nearctic <i>Platypalpus</i> Macquart (Empidoidea: Tachydromiinae) <b>Jeffrey Cumming</b></p>
3.00-3.30	<b>REFRESHMENTS - Student Union</b>		
3.30-5.00	<p><b>CONTRIBUTED PAPERS - Systematics of Eremoneura Steel Building Room 206 (Chair: Margaret Schneider)</b></p> <p>Recent advances in the study of the Asteiidae <b>Amnon Freidberg</b></p> <p>A new look at the Milichiidae, and a revision of <i>Litometopa</i> Sabrosky (Diptera, Schizophora) <b>Irina Brake</b></p> <p>Cladistic analysis of the genus <i>Ceratitis</i> MacLeay (Diptera, Tephritidae) <b>Marc De Meyer</b></p> <p>A revision of <i>Asilostoma</i> Hendel, 1925 (Diptera, Lauxaniidae) <b>Vera Cristina Silva</b></p> <p>Taxonomic revision of the Afrotropical species of the Eudorylini (Diptera: Pipunculidae) with discussion on special male genital characters <b>Mihaly Foldvari</b></p>	<p><b>CONTRIBUTED PAPERS - General Medical and Veterinary Entomology Steel Building Room 309 (Chair: Marlene Elson-Harris)</b></p> <p>Biology and ecology of sand flies in new Z.C.L. foci in Semnan province, Iran <b>Hadi Vatani</b></p> <p>New World screwworm sex pheromone: isolation and synthesis <b>David Carlson</b></p> <p>Risk-spreading larviposition behaviour of nasopharyngeal <i>Cephenemyia</i> (Diptera: Oestridae) parasites of deer <b>John Anderson</b></p> <p>Host specific oestrids of deer repelled by non-host odours <b>John Anderson</b></p> <p>Ecology of sandflies in the main central foci of zoonotic cutaneous leishmaniasis of Iran <b>Yaghoobi-Ershadi</b></p>	<p><b>WORKSHOP - Empidoidea Steel Building Room 309 (Chair: Marc Pollett)</b></p> <p>Phylogenetic relationships within the Empidinae (Empididae) <b>Christophé Daugeron</b></p> <p>The world fauna of <i>Rhamphomyia</i> (<i>Megacyttarus</i>) <b>Miroslav Bartak</b></p> <p>Preliminary results of a revision of the Neotropical Neurigoninae (Dolichopodidae) <b>Stefan Naglis</b></p> <p>Cladistic relationships of the subfamily Dolichopodinae <b>Scott Brooks</b></p> <p>An overview of recent ecological research on</p>



	New concepts of Conopinae (Diptera: Conopidae) <b>Margaret Schneider</b>	Biological and natural control of African schistosomiasis host snails by predatory sciomyzid fly larvae <b>Ray Miller</b>  Studies on the anti-bloodsucking measure against <i>Hirosia iyoensis</i> (Tabanidae) by tracking methods <b>Mamoru Watanabe</b>	Dolichopodidae in Flanders (Belgium) <b>Marc Pollet</b>
<b>CONFERENCE DINNER ON RIVER QUEEN</b> <b>Coaches Depart Kings College at 6.15pm      Coaches Depart River Queen at 10.30pm</b>			

Time	FRIDAY 4 OCTOBER	
8.10-8.50	<b>PLENARY SPEAKER</b> - Steele Building Room 206 Mosquito-borne disease in Australia - an increasing concern? <b>Richard Russell, University of Sydney (Chair: Scott O'Neill)</b>	
09.00-10.30	<b>CONTRIBUTED PAPERS - Medical and Veterinary Entomology: Mosquitoes</b> <b>Steele Building Room 206</b> <b>(Chair: Des Foley)</b>	<b>SYMPOSIUM - Cataloguing and Databasing</b> <b>Steele Building Room 309</b> <b>(Chair: Thomas Pape)</b>
	<p>Molecular identification of <i>Anopheles</i> and <i>Culex</i> mosquitoes <b>Cathy Walton</b></p> <p>Mosquito control in Brisbane City <b>Mike Muller</b></p> <p>Induced immunity against haemolymph proteins of <i>Anopheles stephensi</i>: effects on fecundity of mosquito and transmission blocking of malaria parasites <b>Surendra Gakhar</b></p> <p>Insights into the population structure of the southwest Pacific malaria vector <i>Anopheles farauti</i> 2 (Diptera: Culicidae) by following ribosomal DNA spacer polymorphisms <b>Nigel Beebe</b></p> <p>Molecular characterisation and species distribution of the <i>Anopheles maculipennis</i> complex in Iran <b>Mehdi Sedaghat</b></p> <p>Effects of three plant extracts on eggs and larval development of <i>Culex pipiens</i> L. <b>Ahmed Zaitoun</b></p>	<p><b>Keynote Address</b> Diptera: Discovery and Dissemination in a Digital Domain (D5) <b>Chris Thompson</b></p> <p>Embracing specimen-level databases: expectations and anxieties! <b>Michael Irwin</b></p> <p>Meeting the interrelated challenges of specimen, nomenclature, and literature tracking with Mandala <b>Gail Kampmeier</b></p>
10.30-11.00	<b>REFRESHMENTS - Student Union</b>	
11.00-12.30	<b>CONTRIBUTED PAPERS - Medical and Veterinary Entomology: Mosquitoes (continued)</b> <b>(Chair: Des Foley)</b> and <b>CONTRIBUTED PAPERS - Forensic Entomology</b> <b>(Chair: Ian Dadour)</b> <b>Steele Building room 206</b>	<b>SYMPOSIUM - Cataloguing and Databasing</b> <b>Steele Building Room 309</b> <b>(Chair: Thomas Pape)</b>
	<p>Botanical management of filarial vector, <i>Culex quinquefasciatus</i> Say <b>Kadarkarai Murugan</b></p> <p>Evaluation of the effect of exposure to tannic acid and the entomopathogenic fungus <i>Beauveria bassiana</i> on the ecological competence of <i>Anopheles stephensi</i> <b>Mohammad Saaid Dayer</b></p> <p style="text-align: center;"><b>10 minute break before start of next session</b></p> <p style="text-align: center;"><b>CONTRIBUTED PAPERS - Forensic Entomology</b></p> <p>A preliminary survey of forensically important Diptera in Victoria, Australia <b>Melanie Archer</b></p>	<p>Collection management and databasing at the Entomology Department of INBio, Costa Rica. <b>Manuel Zumbado</b></p> <p>Mining the Dipteran genome: tools and resources from GenBank/EMBL and NCBI <b>Brian Wiegmann</b></p> <p>Fauna Europaea - the Diptera component <b>Thomas Pape</b></p> <p>Databasing European Dolichopodidae (Diptera) in the frame of Fauna Europaea <b>Marc Pollet</b></p>

	<p>Morphological and molecular identification of forensically important blow fly species (Diptera: Calliphoridae) from Taiwan <b>Shiuh-Feng Shiao</b></p> <p>Blowflies associated with pig carcasses exposed in different environments and altitudes in Southeastern Brazil. <b>Aricio Linhares</b></p> <p>The humble maggot in the 21st Century, a compendium of information <b>Ian Dadour</b></p>	<p>Asilidae database - content, structure and accessibility <b>Torsten Dikow</b></p> <p>A World catalogue of Pallopteridae (Diptera) <b>Bernhard Merz</b></p> <p>Catalogue of the Craneflies of the World with a note on the work by C.P. Alexander (author of 11559 crane fly names) <b>Pjotr Oosterbroek</b></p>
12.45-1.15	<b>CLOSING CEREMONY, AWARDING OF PRIZES AND INVITATION TO NEXT CONGRESS</b>	
1.15-2.15	<b>LUNCH - <i>Student Union</i></b>	

***Information Disclaimer: The speakers, topics and times are correct at the time of publishing. In the event of unforeseen circumstances, the organisers reserve the right to alter or delete items from the Congress Program***

# 5th International Congress of Dipterology Provisional Program

[Sunday 29 September](#) | [Monday 30 September](#) | [Tuesday 1 October](#) | [Wednesday 2 October](#) | [Thursday 3 October](#) | [Friday 4 October](#)

Time	SUNDAY 29 SEPTEMBER
	<b>4.00pm - REGISTRATION</b>
	<b>5.00pm - 7.00pm - WELCOME DRINKS - <i>Student Union Heath/Holt Rooms</i></b> <b>6pm Welcome Address by David Yeates "Blowies, Mossies and the Great Aussie Salute"</b>

Time	MONDAY 30 SEPTEMBER				
8.00 -	REGISTRATION				
9.00-9.30	<b>WELCOME and OPENING ADDRESS - <i>Steele Building Room 206</i></b> Welcome by David Yeates (Chair) Welcome to University of Queensland by Professor David Siddle (Deputy Vice-Chancellor (Research), University of Queensland) Geoff Garrett (CEO, CSIRO)				
9.30-10.30	<b>SYMPOSIUM - The Influence of Modern Innovations on Systematic Inquiry, with Emphasis on Diptera (Chair: Mike Irwin)</b> The influence of modern innovations on systematic inquiry, with emphasis on Diptera <b>Michael Irwin</b> Phylogenetic assessment: the advent of the Hennigian Philosophy <b>Rudolf Meier</b> Molecular biology: a set of new characters for phylogenetic assessment <b>Brian Wiegmann</b> Modern innovations in systematic inquiry <b>Christine Lambkin</b>				
10.30-11.00	<b>REFRESHMENTS - <i>Student Union</i></b>				
11.00-12.30	Bioinformatics and the manipulation of biological information <b>Jim Croft</b> Web-based description and identification - what tools do we need? <b>Kevin Thiele</b> Geographical information systems: the spatial patterning of life <b>David Peters</b> Interpreting the fossil record of Diptera: the temporal patterning of life <b>David Grimaldi</b> Interpreting spatio-temporal patterns among select clades of Diptera <b>Evert Schlinger</b> The urgency to make all life known <b>Ian Cresswell</b>				
12.30-1.30	<b>LUNCH - <i>Student Union</i></b>				
1.30-3.00	<table border="1"> <tbody> <tr> <td> <b>SYMPOSIUM - The Influence of Modern Innovations on Systematic Inquiry with Emphasis on Diptera (continued) (Chair: Mike Irwin)</b> and <b>SYMPOSIUM - Diptera in Biodiversity and Conservation 1 (Chair: Rudolf Meier)</b> <b><i>Steele Building Room 206</i></b> </td> <td> <b>WORKSHOP - Hornfly Management and Resistance</b> <b><i>Steele Building Room 309</i></b> <b>(Chair: Lane Foil)</b> </td> </tr> <tr> <td>Diptera: a lot of flies yet to be discovered <b>Chris Thompson</b></td> <td>An overview of Horn Fly (Diptera: Muscidae) resistance surveys and research programs in the United States <b>Fred Knapp</b></td> </tr> </tbody> </table>	<b>SYMPOSIUM - The Influence of Modern Innovations on Systematic Inquiry with Emphasis on Diptera (continued) (Chair: Mike Irwin)</b> and <b>SYMPOSIUM - Diptera in Biodiversity and Conservation 1 (Chair: Rudolf Meier)</b> <b><i>Steele Building Room 206</i></b>	<b>WORKSHOP - Hornfly Management and Resistance</b> <b><i>Steele Building Room 309</i></b> <b>(Chair: Lane Foil)</b>	Diptera: a lot of flies yet to be discovered <b>Chris Thompson</b>	An overview of Horn Fly (Diptera: Muscidae) resistance surveys and research programs in the United States <b>Fred Knapp</b>
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Diptera: a lot of flies yet to be discovered <b>Chris Thompson</b>	An overview of Horn Fly (Diptera: Muscidae) resistance surveys and research programs in the United States <b>Fred Knapp</b>				

	<p>Discovering and managing the patterns of life - from RAM to rammed earth: a perspective from UNESCO <b>Ian Cresswell</b></p> <p>Concluding remarks, questions and discussion: Panel of Speakers <b>David Yeates</b></p> <p><b>2.15pm SYMPOSIUM - Diptera in Biodiversity and Conservation 1</b></p> <p>Guild analyses in the study of dipteran biodiversity; a rationale and critique <b>Roger Kitching</b></p> <p>Diptera diversity on tree trunks <b>Daniel Bickel</b></p> <p>Australian glowworms (Diptera: Keroplatidae: <i>Arachnocampa</i> Spp.): identity, diversity, and management <b>Claire Baker</b></p>	<p>Field surveys of insecticide resistance in Australian buffalo fly <i>Haematobia irritans exigua</i> De Meijere (Diptera: Muscidae) <b>Bill Farnsworth</b></p> <p>A summary of studies on the economic impact of horn flies <b>Jerry Hogsette</b></p> <p>Management and resistance of horn fly and buffalo fly: diagnostic techniques for metabolic resistance <b>John Pruett</b></p> <p>Management and resistance of horn fly and buffalo fly: diagnostic techniques for target site resistance <b>Felix Guerrero</b></p> <p>Movement of horn flies among cattle herds <b>Ronnie Byford</b></p>	
3.00-3.30	<b>REFRESHMENTS - Student Union</b>		
3.30-5.00	<p><b>SYMPOSIUM - Diptera in Biodiversity and Conservation 2</b> <b>Steele Building Room 206</b> <b>(Chair: Dan Bickel)</b></p> <p>Antler flies (Phytalmia, Tephritidae) are fascinating, but not bioindicators <b>Gary Dodson</b></p> <p>Sedges, mud and myriads of flies: the brachyceran fauna of sedge meadows in southern Canada <b>Frederic Beaulieu</b></p> <p>Chironomid communities (Diptera, Chironomidae) in cold alpine springs. Prospect for a long-term biomonitoring <b>Elisabeth Stur</b></p> <p>The dipteran fauna of a Central European mountain stream <b>Ruediger Wagner</b></p> <p>The method of the evaluation of antropogenic changes in the environment by means of the family Chloropidae (Diptera). <b>Stepan Kubik</b></p> <p>Habitat modification and dipteran biodiversity in central New Zealand <b>Ian Andrew</b></p> <p>Biodiversity patterns in Neotropical dolichopodid faunas (Diptera: Dolichopodidae) <b>Marc Pollet</b></p> <p>Status and geographical distribution of three endangered Karelian keroplatids (Diptera: Keroplatidae) <b>Dimitri Bartenev</b></p>	<p><b>WORKSHOP - Hornfly Management and Resistance</b> <b>Steele Building Room 309</b> <b>(Chair: Lane Foil)</b></p> <p>Behaviour-modifying systems for the control of buffalo fly, <i>Haematobia irritans exigua</i> de Meijere (Diptera: Muscidae) <b>Rudolf Urech</b></p> <p>Control of the horn fly and buffalo fly - past, present and future chemistries and strategies <b>John Riner</b></p> <p>The use of endectocides for horn fly control <b>James Hawkins</b></p> <p>Strategies for managing horn fly, <i>Haematobia irritans</i>, resistance <b>Lane Foil</b></p>	<p><b>WORKSHOP - Sciomyzidae</b> <b>Steele Building Room 324</b> <b>(Chair: Lloyd Knutson)</b></p> <p>The struggle over reconstructing the phylogenetic relationships of the Sciomyzoidea (Diptera) <b>Rudolf Meier</b></p> <p>Morphodiversity and biodiversity in <i>Sepedon</i> Latreille and related genera: a lineage, a tribe, or a subfamily? (Diptera: Sciomyzidae) <b>Lloyd Knutson</b></p> <p><i>Sepedon knutsoni</i>, a second oligochaete feeding sciomyzid from Africa <b>Jean-Claude Vala</b></p> <p>Predation and trail-following behaviour in selected marsh fly species (Diptera: Sciomyzidae) <b>Rory Mc Donnell</b></p>
5.00 -	<b>HAPPY HOUR / POSTER VIEWING - POSTER AUTHORS TO BE PRESENT</b> <i>Student Union Heath/Holt Rooms</i> FREE EVENING		

## TUESDAY 1 OCTOBER

Time	TUESDAY 1 OCTOBER		
8.00 -	REGISTRATION		
8.10-8.50	<b>PLENARY SPEAKER</b> - <i>Steele Building Room 206</i> Phylogenetic relationships of nematocerous Diptera: synopsis of recent hypotheses <a href="#">Greg Courtney, Iowa State University</a> (Chair: <b>Monty Wood</b> )		
9.00-10.30	<b>SYMPOSIUM - Multiple Data Set Analyses for Dipteran Phylogenetics</b> <i>Steele Building Room 206</i> (Chair: <b>Brian Wiegmann</b> )	<b>SYMPOSIUM - Sperm Olympics: Sperm Competiton, Cryptic Female Choice and Mating Behaviour in Diptera</b> <i>Steele Building Room 309</i> (Chair: <b>Marion Kotrba</b> )	<b>WORKSHOP - Muscidae, Anthomyiidae</b> <i>Steele Building Room 324</i> (Chair: <b>Adrian Pont</b> )
	A genomic approach to phylogenetics: multiple gene systematics of the Drosophilidae <b>Patrick O'Grady</b>  Significant incongruence can be informative: insights from partitioned support analyses <b>Christine Lambkin</b>  Genes, fossils and morphology: combined data analysis and a revised time scale for higher-level phylogeny of the Brachycera <b>Brian Wiegmann</b>  Molecular and morphological evidence supporting relationships within Eremoneura: focus on Cyclorrhapha <b>Jeff Skevington</b>  Multiple data sets in addressing complex evolutionary questions within Diptera: case studies within Empidoidea and Simuliidae <b>John Moulton</b>  In search of an outgroup for the Tanyderidae (Diptera): conflict or congruence? <b>Darlene Judd</b>	The female reproductive tract in Diptera I: an introduction <b>Marion Kotrba</b>  The female reproductive tract in Diptera II: morphological diversity and details of the female reproductive tract in acalyptrate Schizophora <b>Marion Kotrba</b>  Female remating, operational sex ratio, and the arena of sexual selection <b>Therese Markow</b>  The labyrinth explored: female sperm storage organs, related structures, and sperm storage patterns in the tephritid fly, <i>Anastrepha suspensa</i> . <b>Ann Fritz</b>  Female remating, sperm displacement, remating speed, fertility, <i>Drosophila ananassae</i> <b>Shree Ram Singh</b>  Non-antagonistic reproductive interactions between the sexes: offsetting the load of sexual conflict <b>Lacey Knowles</b>	Diversity and taxonomy of catkin flies (Egle, Anthomyiidae) <b>Graham Griffiths</b>  The plumosa group of Hydrophoria (Anthomyiidae) <b>Masaaki Suwa</b>  A cladistic analysis of the Muscidae: first results - and problems <b>Adrian Pont</b>  Muscidae (Diptera) of the Neotropical Region: taxonomy of the basal groups <b>Claudio Carvalho</b>  Muscidae (Diptera) of the Neotropical Region - taxonomy of the apical groups <b>Mrcia Couri</b>  A molecular phylogeny of the <i>Stomoxys</i> group based on cytochrome oxidase I. (Presented by Adrian Pont) <b>Rosanna Giordano</b>
10.30-11.00	<b>REFRESHMENTS - Student Union</b>		
11.00-12.30	<b>SYMPOSIUM - Multiple Data Set Analyses for Dipteran Phylogenetics (continued)</b> (Chair: <b>Brian Wiegmann</b> ) and <b>SYMPOSIUM - Diptera in Biodiversity and Conservation 3</b> (Chair: <b>Rudolf Meier</b> ) <i>Steele Building Room 206</i>	<b>WORKSHOP - Muscidae, Anthomyiidae</b> <i>Steele Building Room 324</i> (Chair: <b>Adrian Pont</b> )	
	Multiple data sets and syrphid phylogenetics <b>Gunilla Stahls-Makela</b>  Phylogeny of Syrphinae (Diptera, Syrphidae) on the basis of morphological and molecular characters <b>Heikki Hippa</b>	Phylogeny of the genus <i>Thricops</i> Rondani (Diptera: Muscidae) based on molecular and morphological evidence. <b>Jade Savage</b>  Distributional pattern of Muscidae in the Neotropical Region - a preliminary approach <b>Claudio Carvalho</b>	

	<p>Combining molecular and morphological data for Sepsidae, Coelopidae, and Diopsidae: More conflict than congruence <b>Rudolf Meier</b></p> <p>Phylogeny of the small headed-flies (Diptera: Acroceridae) using multiple molecular markers <b>Shaun Winterton</b></p> <p><b>15 minute break before start of next session</b></p> <p><b>SYMPOSIUM - Diptera in Biodiversity and Conservation 3</b></p> <p>An estimate of dipteran species- richness in Australia <b>David Yeates</b></p>	<p>Comparison of the cuticular hydrocarbons of 7 <i>Musca</i> spp. worldwide (Diptera: Muscidae) <b>David Carlson</b></p>	
12.30-1.30	<b>LUNCH - Student Union</b>		
1.30-3.00	<p><b>SYMPOSIUM - Diptera in Biodiversity and Conservation 3</b> <b>Steele Building Room 206</b> <b>(Chair: Rudolf Meier)</b></p>	<p><b>WORKSHOP - Management of Tephritidae</b> <b>Steele Building room 309</b> <b>(Chair: Dick Drew)</b></p>	<p><b>WORKSHOP - Systematics and Ecology of Oestroidea + Hippoboscoidea</b> <b>Steele Building Room 324</b> <b>(Chair: James O'Hara)</b></p>
	<p>Nearctic Diptera: what we know and what we do not <b>Chris Thompson</b></p> <p>The Afrotropical Diptera - an overview <b>Brian Stuckenberg</b></p> <p>Neotropical Diptera biodiversity: an overview <b>Dalton De Souza Amorim</b></p> <p>Dipteran biodiversity of the Galapagos Islands (Ecuador) <b>Bradley Sinclair</b></p> <p>Hawaii as a Diptera biodiversity Hot Spot: a helluva lot of halteres in the Hawaiian Islands <b>Neal Evenhuis</b></p> <p>New Zealand Diptera: diversity and scope for further studies <b>Rod Macfarlane</b></p>	<p>Antlered Flies (Tephritidae: <i>Phytalmia</i>) of New Guinea and Australia <b>Gary Dodson</b></p> <p>Sexual selection in a tropical fruit fly: role of a plant derived chemical in mate choice <b>S Raghu</b></p> <p>Geographical distribution and seasonal abundance of pest fruit flies in Papua New Guinea <b>David Putulan</b></p> <p>Polytene chromosome analysis, esterase isozyme and Larval Serum Protein (LSP) banding patterns in the melon fly <i>Bactrocera cucurbitae</i> Coq. (Diptera: Tephritidae) with reference to irradiation treatment <b>Farzana Yesmin</b></p>	<p>Advances in the phylogenetics of the Tachininae (Tachinidae) <b>James O'Hara</b></p> <p>A review of New World Zaira Robineau-Desvoidy (Diptera; Tachinidae; Blondeliini) <b>Dan Hansen</b></p> <p>Louse-flies (Diptera: Hippoboscidae) in the Central Black Soil Region of Russia <b>Sergey Gaponov</b></p>
3.00-3.30	<b>REFRESHMENTS - Student Union</b>		
3.30-5.00	<p><b>SYMPOSIUM - Diptera in Biodiversity and Conservation 4</b> <b>Steele Building Room 206</b> <b>(Chair: Dan Bickel)</b></p>	<p><b>WORKSHOP - Agromyzidae</b> <b>Steele Building Room 309</b> <b>(Chair: David Henshaw)</b></p>	
	<p>Assessing species richness of Diptera using museum collections <b>Frederik Petersen</b></p> <p>Extrapolating from the observed species richness in a revision to its 'true' species diversity. A case study using <i>Euscelidia</i> (Asilidae: Diptera) <b>Torsten Dikow</b></p> <p>Spectacular diversity in <i>Cladochaeta</i> (Drosophilidae): anomalous or typical for Neotropical acalyptrate flies? <b>David Grimaldi</b></p>	<p><b>Tribute to Kenneth Spencer</b></p> <p>The phylogeny of Agromyzidae inferred from morphological characters <b>Martin Dempewolf</b></p> <p>Mine density, parasitism and emergence of the leafminers, <i>Liriomyza cicerina</i> (Rondani) and <i>Liriomyza bryoniae</i> (Kalt.) (Diptera: Agromyzidae), and parasitoids on broad beans in Egypt. <b>Samir El-Serwy</b></p>	

	<p>Why are there so many genera of Chloropidae? <b>Terry Wheeler</b></p> <p>The diversity of neotropical Micropezidae <b>Steve Marshall</b></p> <p>Biodiversity studies of Namibian Diptera - a developing country approach <b>Ashley Kirk-Spriggs</b></p>	<p>Seasonal fluctuations of the wheat leafminer, <i>Agromyza nigrella</i> (Rondani) (Diptera: Agromyzidae), and parasitism in Lower and Middle Egypt. <b>Samir El- Serwy</b></p> <p>Revision of nearctic species of Cerodontha (Cerodontha) (Diptera: Agromyzidae) with additional notes on other subgenera <b>Stephanie Boucher</b></p> <p>A CD-ROM on Agromyzidae of economic significance <b>Martin Dempewolf</b></p> <p>Feeding habits and the so called phytophagy of Chloropidae (Diptera) <b>Michael von Tschirnhaus</b></p>
7.00	<b>DINNER AT AUSTRALIAN WOOLSHED Coaches depart from Kings College 6.15pm Coaches depart Woolshed at 10.30pm</b>	

Time	WEDNESDAY 2 OCTOBER	
8.10-8.50	<b>PLENARY SPEAKER - Steele Building Room 206</b> The fossil history of associations between the Diptera and other organisms <a href="#">Conrad Labandeira</a> , <b>Smithsonian Institution (Chair: Brian Stuckenberg)</b>	
09.00-10.30	<p><b>CONTRIBUTED PAPERS - Fossils and Biogeography</b> (Chair: <a href="#">Conrad Labandeira</a>) and <b>CONTRIBUTED PAPERS - Evolution and Biology</b> (Chair: <a href="#">Gary Taylor</a>) <b>Steele Building Room 206</b></p>	<p><b>CONTRIBUTED PAPERS - Behaviour and Physiology</b> <b>Steele Building Room 309</b> (Chair: <a href="#">Gary Dodson</a>)</p>
	<p>Origin of main evolutionary lineages of the Diptera - fossil evidences <b>Wieslaw Krzeminski</b></p> <p>How recent are the Empidoidea of Baltic amber? <b>Hans Ulrich</b></p> <p>Amphipacific disjunctions in net-winged midges (Diptera: Blephariceridae) <b>Peter Zwick</b></p> <p><b>15 Minute break before start of next session</b></p> <p><b>CONTRIBUTED PAPERS - Evolution and Biology</b></p> <p>The Fergusoninidae: co-evolution between gall-flies, nematodes and their myrtaceous hosts. <b>Gary Taylor</b></p> <p>New Zealand robber flies: phenology and biogeography <b>Rod Macfarlane</b></p>	<p>Regulation of bioluminescence in Australian glow-worms <b>David Merritt</b></p> <p>Chemical cues regulate oviposition site selection in the midge <i>Chironomus tepperi</i> Skuse (Chironomidae) <b>Mark Stevens</b></p> <p>Different female ovipositing strategies in tephritid species of the family Tephritidae (Diptera) in <i>Centaurea scabiosa</i> (Asteraceae) - central Europe <b>Judita Kinkorova</b></p> <p>Flies that attack polymorphic snails on coloured backgrounds: selection for crypsis by a sarcophagid parasitoid of the marine snail <i>Littoraria filosa</i> <b>Steve McKillup</b></p>
10.30-11.00	<b>REFRESHMENTS - Student Union</b>	
11.00-12.30	<p><b>CONTRIBUTED PAPERS - Evolution and Biology</b> <b>Steele Building Room 206</b> (Chair: <a href="#">Gary Taylor</a>)</p>	<p><b>WORKSHOP - Cecidomyiidae</b> <b>Steele Building Room 309</b> (Chair: <a href="#">Junichi Yukawa</a>)</p>
	<p>Evolution of the sclerotised plant-piercing oviscapt in <i>Thrypticus</i> (Diptera: Dolichopodidae) <b>Daniel Bickel</b></p> <p>Do Wolbachia infections obscure phylogeographic patterns of the European cherry fruit fly? <b>Markus</b></p>	<p>Facultative competition between two gall-midge species (Cecidomyiidae) on <i>Suaeda monoica</i> (Chenopodiaceae) <b>Netta Dorchin</b></p> <p>Synchronization of gall midge emergence with host plant phenology <b>Junichi Yukawa</b></p>

	<p><b>Riegler</b></p> <p>Fly pollination and plant breeding systems: are flies good pollinators? <b>Chris Borkent</b></p> <p>On the natural history and all life-history stages of the only European stalk-eyed fly, <i>Sphyracephala europaea</i> (Diopsidae: Diptera). <b>Mihaly Foldvari</b></p> <p>The immature stages of soldier-flies (Diptera, Stratiomyidae) in South America - new reports and biodiversity <b>Jose Roberto Pujol Luz</b></p> <p>Sex, flies and videotape: pollination and sexual deception in the Australian terrestrial orchid <i>Pterostylis</i> <b>Joanna Hamilton</b></p> <p>Understanding the evolution of insect: microbe associations using <i>Drosophila melangaster</i> whole genome microarrays <b>Elizabeth McGraw</b></p>	<p>The gall midges (Cecidomyiidae) of <i>Carya</i> (Juglandaceae) in the Nearctic Region <b>Raymond Gagne</b></p> <p>Pupal characteristics of the Japanese <i>Asphondylia</i> gall midges (Diptera: Cecidomyiidae) and their species identification by DNA sequencing <b>Nami Uechi</b></p> <p>Morphology and a preliminary phylogenetic analysis of immatures of Neotropical <i>Asphondyliini</i> genera (Diptera: Cecidomyiidae) <b>Dalton De Souza Amorim</b></p> <p>Inter- and intraspecific comparison among <i>Asteralobia</i> gall midges (Diptera: Cecidomyiidae) on <i>Ilex</i> species (Aquifoliaceae): sympatric vs. allopatric speciation <b>Makoto Tokuda</b></p> <p>Zoophagous gall midges of the Italian fauna (Diptera: Cecidomyiidae) <b>Mario Solinas</b></p>
12.30-1.30	<b>LUNCH - Student Union</b>	
1.30-3.00	<p><b>SYMPOSIUM - Digital Diptera: Fly Identification in the New Millennium</b> <b>Steele Building Room 206</b> <b>(Chair: Steve Marshall)</b></p> <p>Fly identification: crisis, revolution or evolution? <b>Steve Marshall</b></p> <p>An interactive key to fly families: from Australia to the world! <b>David Yeates</b></p> <p>Simplified digital photography for museum work <b>Stephen Gaimari</b></p> <p>Identification: some basics and their implications for digital solutions <b>Chris Thompson</b></p> <p>DORSALIS - an interactive key to fruit flies of the <i>Bactrocera</i> (<i>Bactrocera</i>) <i>dorsalis</i> complex <b>Amy Lawson</b></p> <p>Identification of flies (Diptera) and other insects by general audiences using digital technologies: unlimited access to illustrations <b>Riley Nelson</b></p>	<p><b>CONTRIBUTED PAPERS - Systematics of Simuliidae</b> <b>Steele Building Room 309</b> <b>(Chair: Sixto Coscarón)</b></p> <p>Do the Neotropical <i>Simulium</i> subgenera constitute a monophyletic taxon? <b>Daniel Rafael Miranda-Esquivel</b></p> <p>A cladistic definition of <i>Simulium</i> (<i>Ectemnaspis</i>) and <i>S. (Psilopelmia)</i> subgenera (Diptera: Simuliidae) <b>Sixto Coscarón</b></p> <p>Systematics of black flies (Diptera: Simuliidae) in Thailand <b>Suwannee Phayusasena</b></p> <p>Taxonomic revision and cladistic analysis of <i>Simulium</i> (<i>Hearlea</i>) Vargas, Martínez Palacios &amp; Díaz Nájera (Diptera: Simuliidae) <b>Sixto Coscarón</b></p>
3.00-3.30	<b>REFRESHMENTS - Student Union</b>	
3.30-5.00	<p><b>CONTRIBUTED PAPERS - Phylogeny of Lower Diptera and Lower Brachycera</b> <b>Steele Building Room 206 (Chair: Brad Sinclair)</b></p> <p>From polyphyly to biogeography of Thereva (Asiloidea: Therevidae) <b>Kevin Holston</b></p> <p>New molecular and morphological evidence for the phylogenetic placement of <i>Phycini</i> and <i>Xestomyzini</i> (Diptera, Therevidae) <b>Martin Hauser</b></p> <p>The Exoprosopini, Australia and the world: revelations from systematic studies <b>Christine Lambkin</b></p> <p>A phylogenetic analysis of Bibionidae <b>Scott Fitzgerald</b></p> <p>The main clades of Sciaridae (Diptera) <b>Pekka Vilkkamaa</b></p>	
5.00-6.00	<b>OPEN COUNCIL MEETING Steele Building Room 206</b>	
6.00-7.00	<b>HAPPY HOUR - FREE EVENING</b>	



8.10-8.50	<b>PLENARY SPEAKER</b> - <i>Steele Building Room 206</i> The Evolution of Segmentation and Body Patterning <a href="#">Nipan Patel</a> , <i>University of Chicago</i> (Chair: Brad Sinclair)		
9.00-10.30	<b>WORKSHOP - Development</b> (Chair: David Merritt) and <b>SYMPOSIUM - The Genetics of Biological Invasions</b> (Chair George Roderick) <i>Steele Building Room 206</i>	<b>CONTRIBUTED PAPERS - African Diptera: Biogeography and Gondwanaland</b> <i>Steele Building 309</i> (Chair: Ashley Kirk-Spriggs)	<b>WORKSHOP - Biology of Calliphoridae and Sarcophagidae</b> <i>Steele Building Room 324</i> (Chair: James Wallman)
	Evolution of embryonic axis specification in Diptera <b>Urs Schmidt-Ott</b>  Influential Passengers: Inherited <i>Wolbachia</i> infections of insects <b>Scott O'Neill</b>  <b>10 Minute break before next Session</b>  <b>SYMPOSIUM - The Genetics of Biological Invasions</b>  Introduction <b>George Roderick</b>  Genetic tools for studying invasive Diptera <b>Andrew Bohonak</b>  Tracking the spread of the invasive horn and buffalo flies, <i>Haematobia irritans irritans</i> and <i>H. i. Exigua</i> , using cytochrome oxidase I and <i>Wolbachia</i> <b>Rosanna Giordano</b> (Presented by Adrian Pont)	The biogeographical relationships of the Acroceridae of Africa, Madagascar and South America <b>Evert Schlinger</b>  New insights into the palaeogeography and breakup of Gondwana, and some associated biogeographical topics <b>Brian Stuckenberg</b>  African biogeography patterns - an introduction <b>Ashley Kirk-Spriggs</b>  The distributional patterns for neotropical / afrotropical / australo-oriental <i>Simulium</i> Latreille (Diptera: Simuliidae) subgenera <b>Daniel Rafael Miranda-Esquivel</b>  Biogeography of Afrotropical Chironomidae (Diptera) <b>Torbjorn Ekrem</b>  The phylogenetic relationships of <i>Archaeochlus</i> Brundin, <i>Austrochlus</i> Cranston and <i>Afrochlus</i> Freeman (Diptera: Nematocera), basal chironomid genera with a Gondwanan connection <b>Jon Martin</b>	Phylogeny of Chrysomyine blow flies <b>Hiromu Kurahashi</b>  Biodiversity of sarcophagid, calliphorid and muscid flies (Diptera) of Sundarbans Biosphere Reserve, India <b>Bhanu Chandra Nandi</b>  The evolution of ectoparasitism in calliphorid blowflies <b>Jamie Stevens</b>  Flesh flies (Sarcophagidae) from southern Appalachian mountain summits: rare species, rare sites, and human encroachment <b>Greg Dahlem</b>  Molecular systematics and identification of Australian carrion-breeding blowflies <b>James Wallman</b>
10.30-11.00	<b>REFRESHMENTS - Student Union</b>		
11.00-12.30	<b>SYMPOSIUM - The Genetics of Biological Invasions</b> <i>Steele Building Room 206</i> (Chair: George Roderick)	<b>CONTRIBUTED PAPERS - African Diptera: Biogeography and Gondwanaland</b> <i>Steele Building Room 309</i> Chair: Ashley Kirk-Spriggs)	<b>WORKSHOP - Biology of Calliphoridae and Sarcophagidae</b> <i>Steele Building Room 324</i> (Chair: James Wallman)
	Medfly ( <i>Ceratitis capitata</i> ) bioinvasions of California <b>Giulliano Gasperi</b>  Inferring the source of outbreak populations of Queensland fruit fly <b>Stuart Gilchrist</b>  Diptera invasions in South Pacific islands: consequences for public health <b>Neil Davies</b>  Are flies model insect invaders? Genetics, ecology, behavior, and adaptation <b>George Roderick</b>	The present state of taxonomy and biogeography of the Heleomyzidae and Trixoscelididae in the Afrotropical Region. <b>A.J. Woznica</b> (Presented by Ashley Kirk-Spriggs)  Zoogeographical distribution of Afrotropical species of <i>Atherigona</i> Rondani (Diptera: Muscidae) <b>Michael Chidoze Dike</b>  Southern African Empidoidea (Diptera): phylogenetic patterns and biogeographic implications <b>Bradley Sinclair</b>  African Mythicomysiidae (Diptera) - biogeographic Implications of a	<i>Sarcophaga megafilosia</i> and <i>S. meiofilosia</i> : flesh fly parasitoids of marine snails in Central Queensland mangroves <b>Thomas Pape</b>  The joint post feeding radial larval dispersal in flies of genus <i>Chrysomya</i> : weight, depth and distance for pupation <b>Leonardo Gomes</b>

		diverse group of flies <b>Neal Evenhuis</b>	
12.30-1.30	<b>LUNCH - Student Union</b>		
1.30-3.00	<p><b>CONTRIBUTED PAPERS - Phylogeny of Cyclorrhapha Steel Building Room 206 (Chair: Christine Lambkin)</b></p> <p>The main clades of the Sphaeroceridae (Diptera) <b>Natalia Kuznetzova</b></p> <p>Stirring the classification of Sphaeroceroidea or Heteromyzoidea <b>David McAlpine</b></p> <p>Relationships and limits of the Pyrgotidae (Diptera: Schizophora: Tephritoidea) <b>Valery Korneyev</b></p> <p>Aiming for a phylogenetic classification of the Lauxanioidea <b>Stephen Gaimari</b></p> <p>Towards a phylogenetic classification of Syrphidae (Diptera) <b>Sergey Kuznetzov</b></p>	<p><b>CONTRIBUTED PAPERS - Systematics of Lower Diptera Steel Building Room 309 (Chair: Greg Courtney)</b></p> <p>A re-examination of the 'Chaoboriform' genera (Diptera: Chaoboridae) using larval morphological characters <b>Joshua Ogawa</b></p> <p>The position of the subfamily Bruchomyiinae in the family Psychodidae <b>Ruediger Wagner</b></p> <p>Austrochironomus, a subgenus of <i>Chironomus</i> Meigen (Diptera: Chironomidae) <b>Masaru Yamamoto</b></p> <p>Towards a phylogeny of <i>Tanytarsus</i> van der Wulp. Is morphology alone sufficient to reconstruct the genealogical relationships between species in Chironomidae? <b>Torbjorn Ekrem</b></p> <p>Revision of <i>Wyeomyia</i> (<i>Hystatomyia</i>) Dyar &amp; Knab (Diptera: Culicidae) <b>Jessica Adkins</b></p>	<p><b>WORKSHOP - Empidoidea Steel Building Room 324 (Marc Pollett)</b></p> <p>Dolichopodidae in the canopy of lowland primary rainforest on the north coast of Papua New Guinea <b>Patrick Grootaert</b></p> <p>Species groups within the genus <i>Hilara</i> (Empididae) in New Zealand <b>Ian Andrew</b></p> <p>The ultrastructure and function of the silk-producing basitarsus in the <i>Hilarini</i> (Diptera: Empididae) <b>James Young</b></p> <p>A new species of <i>Nemedina</i> Chandler from mid-Asia (Diptera: Empidoidea) resolves the phylogenetic position of this enigmatic genus <b>Bradley Sinclair</b></p> <p>Systematics of Nearctic <i>Platypalpus</i> Macquart (Empidoidea: Tachydromiinae) <b>Jeffrey Cumming</b></p>
3.00-3.30	<b>REFRESHMENTS - Student Union</b>		
3.30-5.00	<p><b>CONTRIBUTED PAPERS - Systematics of Eremoneura Steel Building Room 206 (Chair: Margaret Schneider)</b></p> <p>Recent advances in the study of the Asteiidae <b>Amnon Freidberg</b></p> <p>A new look at the Milichiidae, and a revision of <i>Litometopa</i> Sabrosky (Diptera, Schizophora) <b>Irina Brake</b></p> <p>Cladistic analysis of the genus <i>Ceratitis</i> MacLeay (Diptera, Tephritidae) <b>Marc De Meyer</b></p> <p>A revision of <i>Asilostoma</i> Hendel, 1925 (Diptera, Lauxaniidae) <b>Vera Cristina Silva</b></p> <p>Taxonomic revision of the Afrotropical species of the Eudorylini (Diptera: Pipunculidae) with discussion on special male genital characters <b>Mihaly Foldvari</b></p>	<p><b>CONTRIBUTED PAPERS - General Medical and Veterinary Entomology Steel Building Room 309 (Chair: Marlene Elson-Harris)</b></p> <p>Biology and ecology of sand flies in new Z.C.L. foci in Semnan province, Iran <b>Hadi Vatani</b></p> <p>New World screwworm sex pheromone: isolation and synthesis <b>David Carlson</b></p> <p>Risk-spreading larviposition behaviour of nasopharyngeal <i>Cephenemyia</i> (Diptera: Oestridae) parasites of deer <b>John Anderson</b></p> <p>Host specific oestrids of deer repelled by non-host odours <b>John Anderson</b></p> <p>Ecology of sandflies in the main central foci of zoonotic cutaneous leishmaniasis of Iran <b>Yaghoobi-Ershadi</b></p>	<p><b>WORKSHOP - Empidoidea Steel Building Room 309 (Chair: Marc Pollett)</b></p> <p>Phylogenetic relationships within the Empidinae (Empididae) <b>Christophé Daugeron</b></p> <p>The world fauna of <i>Rhamphomyia</i> (<i>Megacyttarus</i>) <b>Miroslav Bartak</b></p> <p>Preliminary results of a revision of the Neotropical Neurigoninae (Dolichopodidae) <b>Stefan Naglis</b></p> <p>Cladistic relationships of the subfamily Dolichopodinae <b>Scott Brooks</b></p> <p>An overview of recent ecological research on</p>

	New concepts of Conopinae (Diptera: Conopidae) <b>Margaret Schneider</b>	Biological and natural control of African schistosomiasis host snails by predatory sciomyzid fly larvae <b>Ray Miller</b>  Studies on the anti-bloodsucking measure against <i>Hirosia iyoensis</i> (Tabanidae) by tracking methods <b>Mamoru Watanabe</b>	Dolichopodidae in Flanders (Belgium) <b>Marc Pollet</b>
<b>CONFERENCE DINNER ON RIVER QUEEN</b> <b>Coaches Depart Kings College at 6.15pm      Coaches Depart River Queen at 10.30pm</b>			

Time	FRIDAY 4 OCTOBER	
8.10-8.50	<b>PLENARY SPEAKER</b> - Steele Building Room 206 Mosquito-borne disease in Australia - an increasing concern? <b>Richard Russell, University of Sydney (Chair: Scott O'Neill)</b>	
09.00-10.30	<b>CONTRIBUTED PAPERS - Medical and Veterinary Entomology: Mosquitoes</b> <b>Steele Building Room 206</b> <b>(Chair: Des Foley)</b>	<b>SYMPOSIUM - Cataloguing and Databasing</b> <b>Steele Building Room 309</b> <b>(Chair: Thomas Pape)</b>
	<p>Molecular identification of <i>Anopheles</i> and <i>Culex</i> mosquitoes <b>Cathy Walton</b></p> <p>Mosquito control in Brisbane City <b>Mike Muller</b></p> <p>Induced immunity against haemolymph proteins of <i>Anopheles stephensi</i>: effects on fecundity of mosquito and transmission blocking of malaria parasites <b>Surendra Gakhar</b></p> <p>Insights into the population structure of the southwest Pacific malaria vector <i>Anopheles farauti</i> 2 (Diptera: Culicidae) by following ribosomal DNA spacer polymorphisms <b>Nigel Beebe</b></p> <p>Molecular characterisation and species distribution of the <i>Anopheles maculipennis</i> complex in Iran <b>Mehdi Sedaghat</b></p> <p>Effects of three plant extracts on eggs and larval development of <i>Culex pipiens</i> L. <b>Ahmed Zaitoun</b></p>	<p><b>Keynote Address</b> Diptera: Discovery and Dissemination in a Digital Domain (D5) <b>Chris Thompson</b></p> <p>Embracing specimen-level databases: expectations and anxieties! <b>Michael Irwin</b></p> <p>Meeting the interrelated challenges of specimen, nomenclature, and literature tracking with Mandala <b>Gail Kampmeier</b></p>
10.30-11.00	<b>REFRESHMENTS - Student Union</b>	
11.00-12.30	<b>CONTRIBUTED PAPERS - Medical and Veterinary Entomology: Mosquitoes (continued)</b> <b>(Chair: Des Foley)</b> and <b>CONTRIBUTED PAPERS - Forensic Entomology</b> <b>(Chair: Ian Dadour)</b> <b>Steele Building room 206</b>	<b>SYMPOSIUM - Cataloguing and Databasing</b> <b>Steele Building Room 309</b> <b>(Chair: Thomas Pape)</b>
	<p>Botanical management of filarial vector, <i>Culex quinquefasciatus</i> Say <b>Kadarkarai Murugan</b></p> <p>Evaluation of the effect of exposure to tannic acid and the entomopathogenic fungus <i>Beauveria bassiana</i> on the ecological competence of <i>Anopheles stephensi</i> <b>Mohammad Saaid Dayer</b></p> <p style="text-align: center;"><b>10 minute break before start of next session</b></p> <p style="text-align: center;"><b>CONTRIBUTED PAPERS - Forensic Entomology</b></p> <p>A preliminary survey of forensically important Diptera in Victoria, Australia <b>Melanie Archer</b></p>	<p>Collection management and databasing at the Entomology Department of INBio, Costa Rica. <b>Manuel Zumbado</b></p> <p>Mining the Dipteran genome: tools and resources from GenBank/EMBL and NCBI <b>Brian Wiegmann</b></p> <p>Fauna Europaea - the Diptera component <b>Thomas Pape</b></p> <p>Databasing European Dolichopodidae (Diptera) in the frame of Fauna Europaea <b>Marc Pollet</b></p>

	<p>Morphological and molecular identification of forensically important blow fly species (Diptera: Calliphoridae) from Taiwan <b>Shiuh-Feng Shiao</b></p> <p>Blowflies associated with pig carcasses exposed in different environments and altitudes in Southeastern Brazil. <b>Aricio Linhares</b></p> <p>The humble maggot in the 21st Century, a compendium of information <b>Ian Dadour</b></p>	<p>Asilidae database - content, structure and accessibility <b>Torsten Dikow</b></p> <p>A World catalogue of Pallopteridae (Diptera) <b>Bernhard Merz</b></p> <p>Catalogue of the Craneflies of the World with a note on the work by C.P. Alexander (author of 11559 crane fly names) <b>Pjotr Oosterbroek</b></p>
12.45-1.15	<b>CLOSING CEREMONY, AWARDING OF PRIZES AND INVITATION TO NEXT CONGRESS</b>	
1.15-2.15	<b>LUNCH - <i>Student Union</i></b>	

***Information Disclaimer: The speakers, topics and times are correct at the time of publishing. In the event of unforeseen circumstances, the organisers reserve the right to alter or delete items from the Congress Program***