

SECTION 11**Physiology & Biochemistry**

CONVENORS: Frances Duncan (RSA) and Laura Fielden (USA)

10 July 2008

SESSION NO. 2

Symposium Reference No **11.04** **Insect flight: new traits** Room No: MR 21G
 Symposium Organisers: Wolfram Kutch (Germany)

Order	Start	Abstract No.	Presentation Title	Presenting Author
1	09:00	1028	Arthropod Aloft: The new science of insect flight Authors Robert Dudley	Robert Dudley
2	09:30	1975	Release of locust flight with neurochemicals Authors Paul A. Stevenson Edgar Buhl Klaus Schildberger	Paul A. Stevenson
3	09:45	435	Directed aerial descent in tropical canopy arthropods Authors Steve Yanoviak	Steve Yanoviak
4	10:00	807	Male and female Culex mosquitoes match their flight tones at frequencies beyond their auditory range Authors Ben Warren Gabriella Gibson Ian Russell	Gabriella Gibson
5	10:15	1257	Coping with asymmetry: Perturbed hovering flight in sphingid moth Authors Tyson Hedrick	Tyson Hedrick

SESSION NO. 3

Symposium Reference No **11.013** **Tea Break** Room No: Hall 3ABC
 Symposium Organisers:

Order	Start	Abstract No.	Presentation Title	Presenting Author
0	10:30	0	Tea Break Authors	Tea Break

SESSION NO. 4

Symposium Reference No **11.04** **Insect flight: new traits** Room No: MR 21G
 Symposium Organisers: Wolfram Kutch (Germany)

Order	Start	Abstract No.	Presentation Title	Presenting Author
6	11:00	1012	Recent progress in insect telemetry Authors Wolfram Kutsch	Wolfram Kutsch
7	11:15	242	Tracking butterfly flight with harmonic radar: Linking genotype, phenotype and performance Authors Kristjan Niitepõld Otso Ovaskainen Ilkka Hanski	Kristjan Niitepõld
8	11:30	661	How do long-range insect migrants influence their flight direction? Authors Jason Chapman	Jason Chapman
9	11:45	1867	Compass orientation mechanisms in migratory butterflies Authors Rebecca Nesbit Duncan Sivell Jason Chapman	Rebecca Nesbit
10	12:00	1709	Estimation of insect migration trajectories with flight parameters measured by Insect Monitoring Radar Authors Haikou Wang V Alistair Drake	Haikou Wang

SESSION NO. 5

Symposium Reference No **11.024** **Lunch Break & Posters** Room No: Hall 3ABC
 Symposium Organisers:

Order	Start	Abstract No.	Presentation Title	Presenting Author
0	12:30	0	Lunch Break & Posters Authors	Lunch Break & Posters

SESSION NO. 6

Symposium Reference No **11.05** **New approaches toward understanding vector physiology and control** Room No: MR 21G
 Symposium Organisers: Andrew Li (USA) & Glen Needham (USA)

Order	Start	Abstract No.	Presentation Title	Presenting Author
11	14:00	3554	Dedication to Dr Andrew Spielman Authors Giancarlo Lopez-Martinez Glen Needham	Glen Needham
12	14:30	234	Neurohormonal control of diuresis in Rhodnius prolixus (the vector of Chagas' disease) Authors Ian Orchard Jean-Paul Paluzzi Juan Ianowski	Ian Orchard

13	14:45	475	Respiratory physiology as a tool for understanding ecological patterns in fleas Authors Boris Krasnov Irina Khokhlova Laura Fielden	Boris Krasnov
14	15:00	1580	Electrical Penetration Graph (EPG) monitoring of feeding by glassy-winged sharpshooter and potential application of EPG to other pathogen vectors Authors Elaine Backus	Elaine Backus
15	15:15	1643	In vivo models for exploring the molecular basis of tick feeding and pathogenesis Authors Deborah Jaworski C. Jerry Bowen Glen Needham	Deborah Jaworski

SESSION NO. 7

Symposium Reference No	11.018	Tea Break	Room No:	Hall 3ABC
Symposium Organisers:				
Order	Start	Abstract No.	Presentation Title	Presenting Author
0	15:30	0	Tea Break Authors	Tea Break

SESSION NO. 8

Symposium Reference No	11.05	New approaches toward understanding vector physiology and control	Room No:	MR 21G
Symposium Organisers: Andrew Li (USA) & Glen Needham (USA)				
Order	Start	Abstract No.	Presentation Title	Presenting Author
16	16:00	1692	Insecticide defenses in the salt marsh mosquito <i>Aedes sollicitans</i> Authors L. B. Brattsten Debin Sun Shaoming Huang	L. B. Brattsten
17	16:15	3251	Physiological adaptations enable American dog tick adults to survive temperature extremes Authors Glen Needham Kai-Lun Hwang	Glen Needham
18	16:30	3277	Release of alarm pheromone components during feeding increases bed bug encounters with their host and decreases traumatic insemination Authors Joshua Benoit M. Robert Michaud Jay Yoder	Joshua Benoit
19	16:45	3430	Saline tolerance in mosquito larvae Authors Timothy J Bradley	Timothy J Bradley

08 October 2008