



MASS-REARING OF INSECTS WORKSHOP

IPM Initiative,
Department of Conservation Ecology and Entomology
Stellenbosch University



Monday, 23rd October 2017 - Venue: JS Marais Building Room 3028

Time	Talk title/Speaker
8:30-9:30	Participant introductions
9:30-10:30	Introduction to principles of mass-rearing and rearing systems Des Conlong, South African Sugarcane Research Institute
10:30-11:00	<i>Tea/Coffee break</i>
11:00-12:00	Example case studies of insect mass-rearing in South Africa Des Conlong, South African Sugarcane Research Institute
12:00-13:00	Insect breeding and genetics for high quality insects Minette Karsten, Stellenbosch University
13:00-14:00	<i>Lunch break</i>
14:00-15:00	Principles of physiology and environmental biology Madeleine Barton, Stellenbosch University
15:00-15:45	Implications of chemical analysis Beverley Ellis, Stellenbosch University
15:45-16:00	<i>Short break</i>
16:00-17:00	Insectary design and construction Paul Watson, AgriProtein
17:00-19:00	Happy hour in Ball & Scarab (JS Marais Lapa)

Tuesday, 24th October 2017- Venue: JS Marais Building Room 3028

Time	Talk title/Speaker
8:00-9:00	Insect pathology, microbial contamination and entomopathogens (lecture) Justin Hatting, Agricultural Research Council
9:00-9:45	Insect pathology practical Group A: Identification of common pathogens and microbes – J Hatting Group B: Demonstration of best insectary hygiene practices – D Gillespie & D Conlong
9:45-10:30	Insect pathology practical Group A: Demonstration of best insectary hygiene practices – D Gillespie & D Conlong Group B: Identification of common pathogens and microbes – J Hatting
10:30-11:00	<i>Tea/Coffee break</i>
11:00-12:00	Health and safety of workers Denise Gillespie, South African Sugarcane Research Institute
12:00-13:00	Biosecurity and management of diseases and contamination Elsje Pieterse, Stellenbosch University
13:00-14:00	<i>Lunch Break</i>
14:00-17:00	Field trip to Fruit fly Africa, Stellenbosch
19:00	Dinner at Gino's

Wednesday, 25th October 2017– Venue: JS Marais Building Room 3028

Time	Talk title/Speaker
08:00-10:00	Process management Koot Pieterse, NMMU
10:00-10:30	<i>Tea/Coffee break</i>
10:30-13:00	Insect nutrition, feeding and artificial diets Elsje Pieterse, Stellenbosch University
13:00-14:00	<i>Lunch break</i>
14:00-15:30	Quality control in mass rearing insectaries Norman Leppla, University of Florida
15:30-15:45	<i>Short break</i>
15:45-17:00	Quality control in mass rearing insectaries continued Norman Leppla, University of Florida
17:00	Happy hour in Ball & Scarab (JS Marais Lapa) Braai and presentation by Olaf Jebens (Agriprotein)

Thursday, 26th October 2017– Venue: Cape Town

Time	Talk title/Speaker
9:00-17:00	Field trip to Cape Town Department of Water Affairs biocontrol agent rearing facility Free afternoon in Cape Town CBD
17:00-21:00	Dinner in Cape Town

Friday, 27th October 2017 - Venue: JS Marais Building Room 3028

Time	Talk title/Speaker
8:00-9:00	Process control: Computer modelling of environmental biology effects on mass-reared insects Maddie Barton, Stellenbosch University
9:00-10:00	Artificially manipulating field performance of insects John Terblanche, Stellenbosch University
10:00-10:30	<i>Tea/Coffee break</i>
10:30-11:45	Practicals in effect of insect diet on product control (quality of insects) GROUP A: Chill coma recovery time of insects reared on different diets – M Karsten GROUP B: Diet/density effects on parameters of insect quality – M Woods
11:45-13:00	Practicals in effect of insect diet on product control (quality of insects) GROUP A: Diet/density effects on parameters of insect quality – M Woods GROUP B: Chill coma recovery time of insects reared on different diets – M Karsten
13:00-14:00	<i>Lunch break</i>
14:00-16:00	Focused discussion on specific quality control issues Des Conlong, Elsje Pieterse, Norman Leppla Questions and feedback session