



## Welcome to 2013!

PMA would like to welcome you to the start of a brand new year! As Mark Twain said, "Twenty years from now you will be more disappointed by the things that you didn't do than by the ones you did do. So throw off the bowlines. Sail away from the safe harbour. Catch the trade winds in your sails. Explore. Dream. Discover." Here's to 12 months of rewarding new experiences!

## Insects did it first...



### Sound Communication

Most of what people learn is seen, not heard. However, sound is obviously important to us as we have spoken languages and appreciate an array of sounds as music. Insects also make music and make extensive use of sound for communication. Some insects have extremely elaborate instruments for the production of sounds.

Perhaps the most sophisticated and highly

### BOOK NOW!

#### HACCP/FOOD SAFETY

31 JANUARY 2013

PRETORIA

This course has been specially designed for pest control operators and deals with issues specific to the pest control industry with regards to food safety and integrated pest management, and will give you the specialised training and certification needed.

Registration

Now Open

#### GENERAL PEST CONTROL PROGRAM

21-23 JANUARY 2013

PRETORIA

### Upcoming Courses

#### GENERAL PEST CONTROL PROGRAM

21-23 JANUARY 2013 PRETORIA

11-13 FEBRUARY 2013 PRETORIA

18-20 FEBRUARY 2013 CAPE TOWN

11-13 MARCH 2013 PRETORIA

18-20 MARCH 2013 DURBAN

developed use of sound is by bees, including stingless bees and honey bees. Honey bees emit pulse trains of sound, produced by wing vibration during their waggle dance, that convey information to nest mates about the distance to a food source. Species of *Melipona*, a stingless bee, also use a "morse code" of sound to indicate a distance to the food source to their hivemates. Other sounds made by honey bees include the warning buzz of disturbed workers and the piping of the queen that calms disturbed workers. Other queen-produced sounds are tooting (sometimes called piping) and quacking. Tooting is the sound made by a virgin queen soon after she emerges as an adult, and quacking is the sound made by new queens that are forcefully retained inside their cells by workers. Eventually, they are released to challenge all other queens.

Some termites and ants beat their heads against the walls of their nests to signal alarm, while certain aphids stomp their feet or bang their abdomens on a surface to signal alarm to other aphids. The most complex song known for insects is produced by a katydid, but even the lowly fruit flies produce songs of love and courtship.

**BATTLING TO  
COMPLETE YOUR  
PEST CONTROL  
QUALIFICATION? IF  
SO, CONTACT US!**

#### **WEED CONTROL**

28-30 JANUARY 2013 PRETORIA

25-27 MARCH 2013 PRETORIA

#### **TERMITE & WOOD DESTROYING ORGANISMS**

25-27 FEBRUARY 2013 PRETORIA

6-8 MAY 2013 PRETORIA

#### **FUMIGATION**

4-6 MARCH 2013 PRETORIA

22-24 APRIL 2013 PRETORIA

#### **PLANT PEST & DISEASES**

28-30 JANUARY 2013 PRETORIA

25-27 MARCH 2013 PRETORIA

#### **WOOD PRESERVATION OF UTILITY POLES**

25-27 FEBRUARY 2013 PRETORIA

6-8 MAY 2013 PRETORIA

#### **HACCP/FOOD SAFETY**

31 JANUARY 2013 PRETORIA

***PMA COURSES ARE ACCREDITED  
BY DEPARTMENT OF  
AGRICULTURE, AGRISETA & SAQA***

**FET REGISTRATION NO: 2012/  
FE07/001**

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#### **PEST CONTROL TRAINING ACADEMY / SCHOOL**

##### **Professional Services Offered:**

**training of pest control operators | practical assessments of pest control operators | mentoring of pest control operators | supervision of trainee pest control operators | pest control helpline | pest identification service | food safety / HACCP training and auditing | food safety / PRP registers | ISPM 15 training and certification | green pest management / control | pest management operations manuals**

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