

ONE DAY NATIONAL AWARENESS WORKSHOP

ON

**Management Strategies for Insect Pests of Agricultural
Importance with Special Emphasis on
Bio-control Technology**

(April 19, 2017)



Organized

By

**Plant Protection Division
Nuclear Institute for Food & Agriculture (NIFA) Peshawar**



Organizing Committee

Mr. Muhammad Zahid (Pr. Scientist/ Workshop Organizer)

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Nuclear Institute for Food & Agriculture (NIFA)

P.O. Box - 446, Tarnab, Peshawar

One Day National Awareness workshop

ON

Management Strategies for Insect Pests of Agricultural Importance with Special Emphasis on Bio-control Technology (April 19, 2017)

Registration Form

Name: _____

CNIC No:

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Academic Qualification: _____

Institute: _____

Phone (Office) & Fax No : _____

Cell No: _____

E-mail: _____

Signature: _____ Date: _____

Participants: *Please send the duly signed and completed Registration form through Head of Department/ Nominating Agency to the workshop organizer by Email at the following address on or before, 12th April 2017.*

Muhammad Zahid (Workshop Organizer)

Plant Protection Division, NIFA, Peshawar. OFF: 091-2964060-62. EXT (247), Fax: 091-2964059.

Cell: 03005926757. Email: zahidnifa200028@yahoo.com

Note: No TA/DA or accommodation charges will be paid to any of the participants by the Organizer of workshop.

Background: *Insect pest is one of the major constraints for achieving higher production in agriculture crops. So, the problem of insect pest is acute in case of all agricultural crops. Pesticides or agrochemicals are meant to control harmful pests. However, excessive and unscientific use of pesticides in agriculture crops not only leave residues in soil, water and air but also have adverse effects on non-target organisms such as parasitoids, predators, pollinators and wild animals. This has adversely affected the ecological balance resulting in pest resurgence, development of resistance in the pest species and environmental pollution. Growing public concern over potential health hazards of synthetic pesticides and also steep increase in cost of growing field crops, vegetables & fruits trees/ low profit making by farmers, there is a dire need to develop and promote eco-friendly pest management tactics such as Integrated Pest Management (IPM). Biological control is a component of IPM strategy which aims the reduction or suppression of pest population by natural bio-control agents and typically involves active human role. The bio-control agents include parasites, predators and pathogens, which are living organisms and can intervene the life cycle of insect pests in such a way that crop damage by the pest is minimized. On the other hand, these bio-agents can be conserved, preserved and mass reared under laboratory conditions for field releases for bringing down the targeted pest population below economic threshold level (ETL). Bio-control is preferred over chemical pesticides for the scientific reasons that no harmful effects, target specific & safe to beneficial organisms like pollinators, predatory spiders and other useful insects. Bio-control technology is environment friendly and growth of natural enemies of pests is not affected, thus reducing the pesticide application. The present workshop on Bio-control Technology organized at NIFA, Peshawar is to share the practical scientific know-how and technical inputs with researchers, Agriculture Extension personnel, Plant protection workers and students actively involved in agriculture sector for enhancing crop production and protection. Scientific details on different aspects i.e. conservation of existing natural enemies, providing habitat & resources for promoting bio-control agents, mass rearing and periodic field releases on a seasonal basis or inundatively will be presented by the experts to serve the national cause of the field of agriculture.*

About the Workshop

Workshop will comprise of technical lectures, discussions and interaction with researcher, Extension workers and students of Agriculture. Specialized lectures will be delivered including:

- “An Overview of Plant Protection Division” by Mr. Alam Zeb, Head of Division, NIFA, Peshawar.*
- “Environment friendly management of the insect pests of vegetables through egg parasitoid, Trichogramma chilonis (Ishii)” by Muhammad Zahid, Workshop Organizer, NIFA, Peshawar.*
- “The role of bio-control agents in Integrated Pest Management in crops and vegetables” by Muhammad Younas, Head Entomology, Agriculture Research Institute (ARI) Tarnab, Peshawar”.*
- Practical on rearing techniques of egg parasitoid, Trichogramma chilonis (Ishii) by Muhammad Salman, Co-Organizer, NIFA, Peshawar.*

Selection: *Limited number of applicants will be selected and will be informed in due course of time.*

Registration Fees: Rs. 500/-

Note

- 1. Registration Fee in cash will be charged at the time of Registration.*
- 2. Launch & refreshment will be arranged by NIFA, Peshawar.*
- 3. Certificates to participants will be awarded after attending the workshop.*
- 4. Registration form can be downloaded from NIFA website: <http://www.nifa.org.pk>*

Host Organization

The Nuclear Institute for Food & Agriculture (NIFA), an establishment of Pakistan Atomic Energy Commission (PAEC) is situated on G.T. Road at Tarnab, Taru Jaba, Some 15 Km East of Peshawar city. NIFA Scientists are actively involved in basic and applied research in selected areas of food & Agriculture. NIFA is the only institute in Pakistan where work on food irradiation is conducted and the only ISO-9001-2008 certified Agriculture R & D Institute in Khyber Pakhtunkhwa (KP).

About the Host city

Peshawar is one of the mega historical cities of Pakistan and capital of the KP is situated at the Eastern end of the Khyber pass. A rich blend of cultures & civilizations can be seen over here. Peshawar is the trade & craftsmanship center of different extraordinary handicrafts. The scenic valleys of Swat, Abbotabad, Kaghan and Galliat can be visited conveniently from Peshawar.

Transport

Pick & drop facility will be provided to the participants by NIFA subject to prior intimation on all main roads of Peshawar city to NIFA.

