



Number IV

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## HIGHLIGHTS OF IPPC2019

The IPPC2019 was organized by the International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), in collaboration with the International Association of Plant Protection Sciences (IAAPS), Crop Protection Societies in India, Indian Council of Agricultural Research (ICAR), and the crop protection industry in India. It was held at the Hyderabad International Convention Center (HICC) Nov 10-14, 2019, to discuss ways to **“Outsmart Climate Change to Protect Crops from Depredations of Insect Pests, Diseases and Weeds”**. Over 800 delegates from 60 countries deliberated on strategies for crop protection in the face of climate change to ensure food and nutritional security. Scientists from various areas of crop protection research and extension, including entomology, plant pathology, nematology, and weed science discussed the key issues in crop protection in the backdrop of climate change.

The IPPC2019 was inaugurated by Dr Trilochan Mohapatra, Secretary (Department of Agricultural Research and Education) & Director General (Indian Council of Agricultural Research), Government of India. He emphasized that “Insect pests, diseases and weeds are a major constraint in sustainable crop production and food security”. He said that the topic of IPPC2019 is of utmost importance for planning appropriate strategies for food and nutritional security.



“The presentations by entomologists, plant pathologists, weed scientists and other scientists will address many of the key plant protection issues that farmers, advisers and governments are dealing

with, in particular, those resulting from the increasing complex of agricultural, ecological and other changes associated with global warming,” said Dr Geoff Norton, President-IAPPS, and Dr EA “Short” Heinrichs, Secretary General, IAPPS.

“Pests are invading uninhabitable areas due to climate change factors like increasing temperature and changes in precipitation patterns,” said Dr Peter Carberry, Director General, ICRISAT.

“The Congress will provide an opportunity for the crop protection scientists, industry, policy makers, and the farmers to display their technology to the world, and also to learn from the advances made in crop protection in different parts of the world” said Dr HC Sharma, President IPPC2019.

During the inaugural session the IAPPS recognized five scientists for their contributions in crop protection with awards of distinction, scientific achievement, and lifetime achievement awards.

#### **International Plant Protection Award of Distinction:**

- Charles Vincent - Agriculture and Agri-food Canada, Saint-Jean-sur-Richelieu, Quebec, Canada.
- Karim Maredia - Michigan State University, East Lansing, Michigan, USA.

#### **International Plant Protection Congress Lifetime Achievement Award:**

- Hari C Sharma – Former Vice Chancellor, Dr YS Parmar University of Horticulture & Forestry, Nauni, Solan, Himachal Pradesh, India, and Principle Scientist - Entomology, ICRISAT.

#### **International Plant Protection Congress Award for Scientific Achievement**

- Rajan Sharma - Principal Scientist (Cereals pathology), ICRISAT, Patancheru, Hyderabad, India.
- Mukesh K Dhillon - Principal Scientist (Entomology), IARI, New Delhi, India.

Nine keynote presentations were delivered during the IPPC2019 by the internationally renowned scientists from different parts of the world, who addressed the burning issues in crop protection, and the recent advances made in frontier areas of crop protection.

- Digital identification and diagnostic tools for biosecurity and plant protection - Geoff Norton
- Pesticidal plants can provide effective and environmentally benign pest management for small holders - Philip C Stevenson
- Trends in pesticide discovery research - development of safer and environmentally friendly pesticides - Noriharu Umetsu
- Genomics based breeding for resistance in cereals – a prerequisite for sustainable plant protection and adaptation to climate change - Frank Ordon
- Genetically engineered insect-resistant crops in pest control: Opportunities and challenges - Joerg Romeis
- Understanding and controlling the evolutionary consequences of crop protection strategies - David G. Heckel
- Biological control: Expect the unexpected - Chandish Ballal

- Plant medicine doctors, the urgently needed scientists for confronting plant medicine (Phyiatry) and plant health related problems in global agriculture - Eleftherios (Eris) C. Tjamos
- International year of plant health 2020 – protecting plants, protecting life - Shoki Al-Dobai

There were over 400 presentations across 42 concurrent sessions, covering diverse topics such as invasive pests and climate change, fall armyworm invasion in Asia and Africa, herbicide resistance, IPM for sustainable crop protection, pest x host environment interactions, gene mapping and gene cloning, climate change effects on insect pests, diseases, and weeds, pollination management, pest population dynamics, pesticide resistance management, beneficial microbes and their potential in pest management, endophytes, pesticide residues, food safety and mycotoxins, artificial intelligence (AI) based smart plant protection, detection and diagnosis of plant pathogens and phyiatry education and extension. About 200 posters were presented in seven sessions, and two best posters were selected for recognition by a judging committee in each session.

During the congress dinner at ICRISAT, the Chair of the LOC, Dr H.C. Sharma recognized the help and contributions of ICRISAT staff, including Mrs. Carberry W/O Dr Peter Carberry, DG-ICRISAT, Dr KK Sharma-DDG, Dr MK Dhillon-Co-chair, Dr Rajan Sharma-Coordinator, Dr Jagdish Jaba-Member and Mr Suraj Prasad-Member. Dr KK Sharma presented a Memento to Dr HC Sharma on behalf of ICRISAT management to recognize his contributions to ICRISAT. We thank our Gold: ICRISAT, FMC, UPL and Corteva; Bronze: Bayer and Adama: and other sponsors: ICAR and Sumitomo.

### **Recognition of Indian Crop Protection Scientists**

The LOC chaired by HC Sharma selected 14 scientists from India to recognize their contributions in different disciplines in Crop Protection in India:

- Dr. B.V. David, Dr. B. Vasantharaj David Foundation
- Dr. S. Sithanatham, M/S Sun Agro Biotech Research Center
- Mr. Raju Shroff, Chairman, UPL Limited
- Dr. Bhagirath Choudhary, Founder Director, South Asia Biotechnology Centre (SABC)
- Dr. G.T. Gujar, Former-Head, Division of Entomology, ICAR-IARI, New Delhi
- Dr. C.D. Mayee, President, South Asia Biotechnology Centre (SABC) and Former Chairman ASRB
- Dr. P.K. Chakrabarty, Member, Agricultural Scientist Recruitment Board
- Dr. D.V.R. Reddy, Former-Principal Scientist ICRISAT
- Dr. R.P. Thakur, Former-Principal Scientist ICRISAT
- Dr. Suresh Pande, Former-Principal Scientist ICRISAT
- Dr. B.S. Parmar, Former-Joint Director (Research), IARI, New Delhi.
- Prof. Ram Singh, Ex-Director- HRD and Prof & Head Department of Entomology CCS Haryana Agricultural University, Hisar, Haryana
- Dr. B.M. Singh, Former Dean COA, HPAU, Palampur
- Dr. T. R. Sharma, Director NABI Chandigarh

### **Feedback by the Participants**

“Please accept my sincere appreciation for all of the hard work and sleepless nights in making this

IPPC an outstanding success. Of the four IPPCs that I have been involved in, this was by far the most successful. Congratulations to the LOC” – Short Heinrichs, Secretary General IAAPS.

“Congratulations to you and your team for organizing an outstanding Congress. During my nearly 45 years career in Virology I attended numerous meetings, internationally and nationally. I rate the IPPC 2019 meeting as one of the best. Very productive and well organized. Many of the participants expressed to me how glad they are for attending the meeting, and wholeheartedly complement you for your untiring efforts” – DVR Reddy, Former Research Division Director – Crop protection, ICRISAT.

“I want to thank you for your professional input in organizing the International Plant Protection Congress in Hyderabad. I really enjoyed it” – Charles Vincent

“IPPC2019 is a dream come true for me. It is like fulfilling pilgrimage for an entomologist. The various sessions, keynote addresses, and important lectures point to the immense possibilities that this science holds for the future and practical utility for the farmers” – GT Gujar – Former head, Division of Entomology, IARI, New Delhi.

**Prof Hari C. Sharma**

Chair, IPPC2019 Local Organizing Committee

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**IAPPS Mission: to provide a global forum for the purpose of identifying, evaluating, integrating, and promoting plant protection concepts, technologies, and policies that are economically, environmentally, and socially acceptable.**

**It seeks to provide a global umbrella for the plant protection sciences to facilitate and promote the application of the Integrated Pest Management (IPM) approach to the world’s crop and forest ecosystems.**

**Membership Information: IAPPS has four classes of membership (individual, affiliate, associate, and corporate) which are described in the IAPPS Web Site [www.plantprotection.org](http://www.plantprotection.org).**

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