



"बालीको सुरक्षा, देशको समृद्धि"  
Plant Protection for Nation's Prosperity



# National Plant Protection Workshop 2025

**Date** : Asar 17, 2082 (July 1, 2025) ,

**Venue**: SQUARE Hotel, Lalitpur

**Organized by** : Plant Protection Society Nepal and  
Department of Agriculture, Hariharbhawan, Lalitpur

## PROGRAM SCHEDULE

- **Registration and Breakfast - 7:30-9:00**
- **Inauguration Session - 09:00 onwards**
  - ✓ Program Chair: Dr. Dilli Ram Sharma, President, PPS Nepal
  - ✓ Chief Guest: Hon. Minister, Ram Nath Adhikari
  - ✓ Special Guests: Dr. Govinda Prasad Sharma, Secretary, MoALD  
Dr. Deepak Kharal, Secretary, MoALD  
Dr. Krishna Prasad Timsina, ED, NARC
  - ✓ Guests: Prof. Dr. Arjun Kumar Shrestha, Dean, AFU  
Dr. Kishor Chandra Dahal, Dean, IAAS, TU  
Mr. Prakash Kumar Sanjel, DG, DoA
  - ✓ National Anthem
  - ✓ Inauguration of the program
  - ✓ Objective of the Program and Welcome Remarks: Prakash Kumar Sanjel, DG, DoA
  - ✓ Releasing Abstract Book (NPPW-2025)
  - ✓ Felicitations to Life Time Contributors
  - ✓ Certificate of Appreciation: Bio-pesticide production and promotion
  - ✓ Letter of Appreciation to the Editorial, JPPS

### A. KEY NOTE PRESENTATION

- i. **Redefining Plant Protection: Innovation, Policy, and Sustainability for Food Security in Nepal.**  
- Ganesh Kumar KC, Former Secretary, MoALD (NPPW\_2025\_045\_KNP\_01)
  - ii. **Plant Protection: University Academia.**  
- Prof. Dr. R. B. Thapa, (NPPW\_2025\_050\_KNP\_02)
- **Video show: "HER NAME WAS SITA"** - Dr. Dilli Ram Sharma, President, PPS Nepal
  - **Formal Remarks by Dean, IAAS**
  - **Formal Remarks by Dean, AFU**
  - **Formal Remarks by ED, NARC**
  - **Formal Remarks by Special Guests:** Dr. Deepak Kumar Kharal, Secretary, MoALD  
Dr. Govinda Prasad Sharma, Secretary, MoALD
  - **Formal Remarks by Chief Guest**
  - **Closing remarks by Chairperson**
  - **Group Photograph**

## B. TECHNICAL SESSION

| HALL 1   |   | HALL 2   |             |
|--|---|--|-------------|
| <b>TECHNICAL SESSION I</b>   |   | <b>TECHNICAL SESSION II</b>                                    |             |
| <b>Session Chair :</b> Dr. Hari Bahadur K C  |   | <b>Session Chair :</b> Dr. Ajaya Shree Ratna Bajracharya, NARC |             |
| <b>Moderator/s :</b> Mr. Roshan Adhikari, MoALD  |   | <b>Moderator/s :</b> Ms. Rekha Shapkota, TU                    |             |
| Oral Presentation: 1-8   | 11:00-12:20   | Oral Presentation: 9-16  | 11:00-12:20 |
| <p>1. Banned but Not Gone: Persistent Mortality from Aluminum phosphide poisoning in Nepal (NPPW_2025_001_OR_01)<br/><i>Rakesh Ghimire, Dilli Ram Sharma, Leah Utyasheva, Michael Eddleston</i></p> <p>2. <i>Cryphonectria parasitica</i>, the fungal disease that causes bark cancer of sweet chestnut (<i>Castanea sativa</i>) and its possible control methods (NPPW_2025_007_OR-02)<br/><i>Gabor Tarcali, Mariem Boukhili, Rabbi Hoque</i></p> <p>3. Status and issues on the Sanitary and Phytosanitary (SPS) measures in Asia and Pacific region (NPPW_2025_010_OR_03)<br/><i>Yubak Dhoj GC, Vinod Pandit, Kritika Khanna, Shama Parveen and Debraj Adhikari</i></p> <p>4. Study of acute pesticide poisoning among rural farming communities in the Gandaki provinces of Nepal (NPPW_2025_008_OR-04)<br/><i>Dilli Ram Sharma, Joey Salmon, Leah Utyasheva, Shalik Ram Adhikari and Michael Eddleston</i></p> <p>5. First detection of stem rust pathogen <i>Puccinia graminis</i> f. sp. <i>graminis</i> (Pgt) Clade IV in Nepal using MARPLE diagnostics (NPPW_2025_006_OR_05)<br/><i>Ram B. Khadka, Suraj Baidya, Basistha Acharya, Mahesh Subedi, Dhruva B. Thapa, Roland Wouters, Diane Sounders, and David Hodson</i></p> <p>6. Assessment of damage and yield loss in maize varieties by fall armyworm (<i>Spodoptera frugiperda</i> J. E. Smith) and the Effectiveness of Insecticidal Control (NPPW_2025_011_OR_06)<br/><i>Chiran Adhikari, Sundar Tiwari, Resham B. Thapa, and Saraswati Neupane</i></p> <p>7. Suppression of Chinese citrus fly, <i>Bactrocera minax</i> (Diptera: Tephritidae) through area-wide control program in Nepal (NPPW_2025_014_OR_07)<br/><i>Yam Kumar Shrestha, Debraj Adhikari, Samudra Lal Joshi</i></p> <p>8. Current scenario of Nepal's plant quarantine system in a global context (NPPW_2025_005_OR_08)<br/><i>Rajan Dhamaniya</i></p> | <p>9. Assessing the population dynamics of tomato leaf miner, <i>Tuta absoluta</i> (Meyrick) in various locations of Surkhet, Karnali, Nepal (NPPW_2025_015_OR_09)<br/><i>Chitra Bahadur Rokaya, Sundar Tiwari, Resham Bahadur Thapa and Min Raj Pokhrel</i></p> <p>10. Community Learning Center: A farmer-centric approach to promote climate-resilient and sustainable pest management solutions in agriculture (NPPW_2025_017_OR_10)<br/><i>Kailash Bhatta, Rajendra Dhakal and Sunayana Basnet</i></p> <p>11. Host resistance to <i>Uromyces appendiculatus</i> in common bean landraces and genotypes (NPPW_2025_018_OR_11)<br/><i>Pratikshya Parajuli, Hira Kaji Manandhar and Ritesh Kumar Yadav</i></p> <p>12. Biology and morphometric study of pumpkin fruit fly (<i>Zeugodacus tau</i>) on selected cucurbit hosts under laboratory conditions (NPPW_2025_021_OR-12)<br/><i>Asmita Dhungana, Samiksha Adhikari, Debraj Adhikari, Kishor Chandra Dahal, Rekha Sapkota</i></p> <p>13. An overview on current status and management strategies of thrips species complex in Nepal (NPPW_2025_022_OR_13)<br/><i>Purnima Chhetri, Resham Bahadur Thapa, Sundar Tiwari, and Debraj Adhikari</i></p> <p>14. Agri-insect: Scope, status and conservation strategies (NPPW_2025_024_OR_14)<br/><i>Bikash Bhusal, Bal Krishana Joshi and Ram Prasad Maina</i></p> <p>15. Dynamics of Asian citrus psyllid (<i>Diaphorina citri</i>) in Nepal (NPPW_2025_025_OR_15)<br/><i>Shalik Ram Adhikari, Sundar Tiwari, Hira Kaji Manandhar, Ram Bahadur Khadka, and Christopher Vincent</i></p> <p>16. Fall armyworm, <i>Spodoptera frugiperda</i> (J.E. Smith) infestation and damage severity in maize fields of Kathmandu Valley (NPPW_2025_026_OR_16)<br/><i>Lalit Prasad Sah, Resham Bahadur Thapa, Ghanashyam Bhandari, Pramod Kumar Jha Kishor Chandra Dahal, Pragati Pal</i></p> |  |             |
| Interaction : 12:20-12:30  |   | Interaction : 12:20-12:30                                      |             |
| <b>LUNCH BREAK</b>   |   | 12:30-13:30  |             |

| HALL 1  |             | HALL -2  |             |
|---|-------------|--|-------------|
| <b>TECHNICAL SESSION III</b>  |             | <b>TECHNICAL SESSION IV</b>  |             |
| <b>Session Chair :</b> Mr. Bhoj Raj Shapkota, PQPMC   |             | <b>Session Chair :</b> Mr. Suraj Baidya, NARC  |             |
| <b>Moderator/s :</b> Ms. Purnima Chhetri, CIED  |             | <b>Moderator/s :</b> Ms. Subeksha Shrestha, HICAST   |             |
| Oral Presentation: 17-24  | 13:30-14:40 | Oral Presentation: 25-32   | 13:30-14:40 |
| <p>17. Potential quarantine insect and mite pests in an imported dragon fruit commodity in Nepal (NPPW_2025_054_OR_17)<br/><i>Samudra Lal Joshi, Ph.D.</i></p> <p>18. Insecticidal plant materials increase the fall armyworm larval mortality and reduces field infestation: A laboratory and field bioassay in Timor-Leste (NPPW_2025_029_OR_18)<br/><i>Yubak Dhoj GC, Sundar Tiwari, Julito Fatima Dos Santos de Araujo, Marcos Correia Vidal, Rafael Feliciano, and Felisberto Amaral Soares</i></p> <p>19. Mobile plant clinics in Nepal: Bringing crop health solutions to rural farmers (NPPW_2025_030_OR_19)<br/><i>Mahesh, H M, Debraj Adhikari, Rita Bastakoti, Bhoj Raj Sapkota, Madav Bhatta, and Vinod Pandit</i></p> <p>20. Government collaboration: A key to unlocking Nepal's digital agriculture potential (NPPW_2025_051_OR_20)<br/><i>Madhu Manjari, Malvika Chaudhary, Mahesh H M, and Vinod Pandit</i></p> <p>21. Screening for genetic resistance to Alternaria blight in winter oilseed crops (rapeseed, mustard, and sarsoon) in Nepal: A multi-year pathological evaluation (NPPW_2025_033_OR_21)<br/><i>Subash Subedi, Santosh Sah, and Bishnu Kingring Magar</i></p> <p>22. Mid-October sowing: An eco-friendly strategy for managing Alternaria blight and enhancing yield in rapeseed (<i>Brassica napus</i> L.) (NPPW_2025_034_OR_22)<br/><i>Subash Subedi and Santosh Sah</i></p> <p>23. Potential control of banana fusarium wilt TR4 in Nepal: Cyclobutrifluram and Olyshield Show Efficacy in Greenhouse Study (NPPW_2025_047_OR_23)<br/><i>Ram Bahadur Khadka, Basanta Pandey, Bibek Shaha, Shobha Poudel, Himani Chanda, Prekshya Pokhrel, Poonam Shrestha and Suraj Baidya</i></p> <p>24. Assessing damage, yield loss, and varietal preference of <i>Liriomyza huidobrensis</i> (Blanchard) on potato crop and its management practices in mid-hill of Nepal (NPPW_2025_053_OR_24)<br/><i>Gaurav Thakur, Shiva Prasad Rijal, Rekha Sapkota, Resham Bhadur Thapa,</i></p> |             | <p>25. Native bees and their conservation (NPPW_2025_048_OR_25)<br/><i>Resham Bahadur Thapa, Tirtha Kumar Shrestha and Surakshya Subedi</i></p> <p>26. Biology of melon fruit fly, <i>Zeugodacus cucurbitae</i> (Coquillett, 1899) on selected cucurbit hosts under laboratory condition (NPPW_2025_027_OR_26)<br/><i>Samiksha Adhikari, Asmita Dhungana, Debraj Adhikari, Kapil Kafle, and Rekha Sapkota</i></p> <p>27. Laboratory study on the settlement response of fall armyworm, <i>Spodoptera frugiperda</i> (J.E. Smith) on a range of potential host crops (NPPW_2025_049_OR_27)<br/><i>Sheela Devi Sharma, Resham Bahadur Thapa, Suroj Pokhrel, Saraswati Neupane, Chiran Adhikari, and Janarjan Gautam</i></p> <p>28. Comparison of parasitism of <i>Trichogramma chilonis</i> on eggs of <i>Corcyra cephalonica</i>, <i>Spodoptera frugiperda</i> and <i>Chilo partellus</i> (NPPW_2025_031_OR_28)<br/><i>B Regmi, MR Pokhrel, S Tiwari, TN Bhusal, GS Bhandari, R Muniappan, L Sah</i></p> <p>29. Efficacy of biological management strategies for cabbage butterfly (<i>Peris brassicae nepalensis</i>) on cabbage at Bajura, Nepal (NPPW_2025_032_OR_29)<br/><i>M. Rokaya I, K. Bhatta, and R. Ghimire</i></p> <p>30. Survival rate of <i>Z. cucurbitae</i> (Coq.) and <i>Z. tau</i> (Walker) in cucurbit crops (NPPW_2025_039_OR_30)<br/><i>Rekha Sapkota, Resham B. Thapa, Debraj Adhikari, Asmita Dhungana, Samiksha Adhikari and Kishor C. Dahal</i></p> <p>31. A fungicide resistant <i>Phytophthora infestans</i> Mont. DeBerry, potato late blight pathogen: Global food security threat. (NPPW_2025_042_OR_31)<br/><i>Hom Bahadur B. K., Basistha Acharya, Ram Bahadur Khadka</i></p> <p>32. Evaluation of efficacy of different conventional and traditional acaricides against the two-spotted spider mite (<i>Tetranychus urticae</i> Koch) on strawberry (<i>Fragaria X ananassa</i>) in Chitwan, Nepal. (NPPW_2025_052_OR_32)<br/><i>Shashan Devkota, Suroj Pokhrel, Resham Bahadur Thapa, and Sundar Tiwari</i></p> |             |
| Interaction_14:40-14:50   |             | Interaction_14:40-14:50  |             |

C. **POSTER SESSION : 14:50-15:30** (including Tea Break)

**Session Chair :** Dr. Samudra Lal Joshi

**Moderator/s :** Dr. Debraj Adhikari,

1. Efficacy of selected insecticides against fall armyworm (*Spodoptera frugiperda*, J.E. Smith) in laboratory condition (NPPW\_2025\_002\_PO\_01)  
*Sunil Khadka and Kapil Kafle*
2. Evaluation of hybrid maize varieties against northern corn leaf blight (*Exserohilum turcicum* (Passerini) Leonard and Suggs.) at Chandradangi, Jhapa, Nepal (NPPW\_2025\_003\_PO\_02)  
*Sapana KC, Mohammad Ekram Hussain and Pratiksha Adhikari*
3. Chemical management of rice blast (*Magnaporthe oryzae* (B. C. Couch) disease on spring rice (Hardinath-1) at Chandradangi, Jhapa, Nepal (NPPW\_2025\_004\_PO\_03)  
*Swastika Dhital, Prena Karki, Mohammad Ekram Hussain and Pratiksha Adhikari*
4. Life cycle study and growth performance of black soldier fly (*Hermetia illucens* L.) raised on varying levels of potato peel substrate feeding under laboratory conditions in Chitwan. (NPPW\_2025\_009\_PO\_04)  
*Erika Kunwar and Kapil Kafle*
5. Response of rice breeding pipelines to sheath blight under artificial inoculation (NPPW\_2025\_012\_PO\_05)  
*Sundar Shrestha, Mathura Yadav, Biswash Bastola, Yamnath Paudel, Gopal Yadav, Anita Bhusal*
6. Influence of different ovitraps on oviposition performance: a comprehensive study on the lifecycle of black soldier fly *Hermetia illucens* (L.) in Chitwan, Nepal (NPPW\_2025\_013\_PO\_06)  
*Samikshya Basnet and Kapil Kafle*
7. Farmers' knowledge and perception of walnut insect pest and disease management in Rukum East, Nepal (NPPW\_2025\_016\_PO\_07)  
*Rakshya Devkota, Swastika Kafle, Nabin Bhandari, Saurata Subedi, Deepika Kunwar*
8. Assessment of diseases prevalence in cucurbits in Dhading district and in-vitro efficacy testing of fungicides against gummy stem blight (*Didymella bryoniae*, Rehm) in cucurbits (NPPW\_2025\_019\_PO\_08)  
*Aashika Regmi*
9. Parasitism of fall armyworm, *Spodoptera frugiperda* (J.E. Smith) by egg parasitoids (*Telenomus remus* Nixon and *Trichogramma chilonis* Ishii) (NPPW\_2025\_020\_PO\_09)  
*Divya Poudel, Resham Bahadur Thapa, Rekha Sapkota and Ghana Shyam Bhandari*
10. Bio-rational management of fall armyworm (*Spodoptera frugiperda* (J.E. Smith)) in maize, Baitadi (NPPW\_2025\_023\_PO\_10)  
*Jivan Parihat, Rekha Sapkota, Kapil Kafle, and Kishor Chandra Dahal*
11. Antagonistic effect of different *Trichoderma spp.* against *Pestalotia* leaf spot of strawberry under laboratory conditions (NPPW\_2025\_028\_PO\_11)  
*Shreya Khanal, Hira kaji Manandhar, and Pratiksha Adhikari*
12. Efficacy of lure and bait traps for monitoring and identification of fruit flies in cucurbit crop at Khokana, Lalitpur (NPPW\_2025\_035\_PO\_12)  
*Ajay Shahia, Sudeep Kumar Upadhyayb and Kashinath Chiluwal*
13. Evaluation of potential biopesticides against aphids of cabbage in Nepal (NPPW\_2025\_036\_PO\_13)  
*Madhu Sah, Sundar Tiwari, Ananta Mani Bhattarai and Kamal Aryal*
14. Study on incubation period of coffee white stem borer (*Xylotrechus quadripes*, Chevrolat, 1863) eggs under laboratory condition (NPPW\_2025\_038\_PO\_14)  
*Samsher Basnet, Dr. Naresh Dangi, Kapil Paudel, Dr. Kashinath Chiluwal*
15. Effect of different substrates on the emergence rate of adult black soldier flies (NPPW\_2025\_040\_PO\_15)  
*Bikash Bhusal, Kuldip Ray, Prabhash Maharjan*
16. Botanical pesticides for the *Spodoptera frugiperda* (JE Smith, 1797) management under laboratory conditions (NPPW\_2025\_041\_PO\_16)  
*Anusuya Aaradhana Panthee, Sundar Tiwari, Ananta Mani Bhattarai, and Chiran Adhikari*
17. Incidence of corky root rot caused by *Colletotrichum spp.* in tomato in Nepal (NPPW\_2025\_043\_PO\_17)  
*Ram Bahadur Khadka, Himani Chanda, and Binita Mahaseth*
18. Evaluation of native and exotic tomato and eggplant rootstock genotypes against root-knot nematode (*Meloidogyne javanica*) for grafting. (NPPW\_2025\_044\_PO\_18)  
*Ram Bahadur Khadka, Bishrant Pant, Binita Mahaseth, Aashish Kunwar, Ranjana Rawal and Suraj Baidya*
19. Monitoring fruit fly species using different cue lure traps in pumpkin field at Mahalaxmi, Lalitpur (NPPW\_2025\_037\_PO\_19)  
*D. Sigdel, D. Adhikari, S. Adhikari, A. Dhungana and R. Acharya*
20. Evaluation of native and exotic tomato and eggplant rootstock genotypes against root-knot nematode (*Meloidogyne javanica*) for grafting (NPPW\_2025\_046\_PO\_20)  
*Ram Bahadur Khadka, Bishrant Pant, Binita Mahaseth, Aashish Kunwar, Ranjana Rawal and Suraj Baidya*

**D. Closing Session - 15:30-16:00**

**E. PPSN AGM - 16:00**