

CURRICULUM VITAE

Buddhi Bahadur Achhami



Technical Officer (Entomology)
National Maize Research Program, Rampur, Chitwan, Nepal
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Academic backgrounds

Master degree in Plant Sciences: Laboratory of Entomology, Plant Sciences, Wageningen University and Research Center, The Netherlands.

August, 2011

Specialization: Insect-plant interactions

Thesis

- "Effect of aliphatic glucosinolate concentrations in *Arabidopsis thaliana* on multi-trophic interactions" in Wageningen University and Research Center, The Netherlands.
- "Occurrence and phenology of the grapevine aphid, *Aphis illinoisensis* Shimer Hemiptera: Aphididae in Muscadine and Bunch grapes" in University of Florida, Gainesville Florida, USA.

Bachelor of Science in Agriculture

July, 2002

Institute of Agriculture and Animal Science (IAAS), Rampur Campus, Tribhuvan University, Nepal.

Specialization: Economic entomology

Professional experiences

Technical Officer (Entomology), Nepal Agricultural Research Council, Singha Darbar Plaza Kathmandu

Working station: National Maize Research Program, Rampur, Chitwan, Nepal.

August, 2007 to till date

Major duties and responsibilities:

- Develop, perform, analyze and present entomological research projects on maize and maize based cropping system.
- Active involvement in entomological studies for hybrid maize development and other collaborative projects of National Maize Research Program, Rampur, Chitwan, Nepal.

On-going research activities

- Performance evaluation of *Trichogramma* against maize stem borer in Chitwan condition.
- Assessment of maize weevil (*Sitophilus zeamais*) damage in different grain storage structures.
- Damage assessment of maize stem borer complex on elite maize genotypes, promising maize varieties and hybrids.

- Maize stem borer complex damage assessment on weekly planting of maize genotypes: two hybrids and two open pollinated varieties.

Works accomplished

- Assessed relative susceptibility of maize genotypes against maize stem borer complex in Terai condition.
- Assessed of botanical pesticides bhojo (*Acorus calamus*) rhizome powder and Neem, (*Azadirachta indica*) leaf powder against maize weevil in different grain storage structures.
- Involved in collaborative research with other disciplinary sections at National Maize Research Program, Rampur for the management of insect-pests.

Working station: Regional Agricultural Research Station Parwanipur, Bara Nepal

August, 2004 to July, 2007

Specific duties and responsibilities:

- Develop research proposal related to pest problems in major cereals, vegetables, and plantation crops.
- Conduct experiments, collect data, analyze, and report them in scientific publications.
- Support other disciplinary units and collaborative projects in entomological aspects at Regional Agricultural Research Stations Bara, Nepal.

Works accomplished

- Evaluated brinjal genotypes against brinjal shoot and fruit borer (*Leucinodes orbonalis*) in Parwanipur, Nepal.
- Evaluated elite boro-rice (winter rice) genotypes in Parwanipur research farm in Nepal.
- Participated in multidisciplinary monitoring team across the Central Terai of Nepal.

Publications

Journal articles

- 1) **Achhami, B.B.**, S. Tiwari, and S. Sharma. 2013. Survey on brinjal shoot and fruit borer (*Leucinodes orbonalis* Guen.) in brinjal (*Solanum melongena* L: Solanaceae) growing district of Nepal. Nepalese Journal of Agricultural Sciences, 11:39-46.
- 2) P. Thakur, J. Shrestha, G.S. Bhandari and **B. B. Achhami**, 2013. Insect Scenario and Its Succession in Year Round Weekly Interval Seeded Maize Varieties at Rampur, Chitwan, Nepal, International Journal of Modern Plant and Animal Sciences, 1(2): 96-104.
- 3) Kos, M., B. Houshyani, **B. B. Achhami**, R. Wietsma, R. Gols, B. T. Weldegergis, P. Kabouw, H. J. Bouwmeester, L. E. M. Vet, M. Dicke, and J. J. A. van Loon. 2012. Herbivore-mediated effects of glucosinolates on different natural enemies of a specialist aphid. Journal of Chemical Ecology, 38: 100-115.
- 4) **Achhami B. B.**, A. Dulal, R.K. Basnet, and P. Gautam. 2010. Explorations of maize genotypes against maize stem borer (*Chilo partellus* Swinehoe) infestation in Nepal. Nepalese Journal of Agricultural Sciences, 8: 48-57.

- 5) Thapa, R. B., **B.B. Achhami**, S. Tiwari, and S. C. Dhakal, 2009. Field screening of selected brinjal genotypes against shoot and fruit borer, *Leucinodes orbonalis* Guen. (Pyralidae: Lepidoptera) in eastern terai of Nepal. Journal of the Institute of Agriculture and Animal Sciences, 30: 173-177.

Proceeding articles

- 1) **Achhami, B.B.**, G.S. Bhandari, P. Thakur, and S.B. BK. 2014. Seasonal variation in stem borer damage of maize at Chitwan, Nepal. *In: Book of Extended Summaries*, B.M. Prasanna, B.S. Vivek, A.R. Sadananda, D. Jeffers, P.H. Zaidi, C. Boeber, O. Erenstein, R. Babu, S. K. Nair, B. Gerard, M.L. Jat, N. Palacios and K. Pixley (eds.) 12th Asian Maize Conference and Expert Consultation on “Maize for Food, Feed, Nutrition and Environmental Security” Bangkok, Thailand, October 30–November 1, 2014. CIMMYT, Mexico D.F. and APAARI, Bangkok, 133-140.
- 2) G. S. Bhandari, P. Thakur, T. B. Karki, B. B. Achhami, B. Bhandari and S. Upadhaya, 2013. Effect of weather parameters on maize productivity and insect population dynamics in Chitwan. *In: Giri Y P, Y G Khadka, B N Mahato, B P Sah, S P Khatiwada, M R Bhatta, B K Chettri, A K Gautam, D Gauchan, A R Ansari, J D Ranjit, R Shrestha and B Sapkota (eds). 2014. Proceedings of the 27th National Summer Crops Workshop held on 18 – 20th April 2013 at National Maize Research Program, Rampur, Chitwan. Nepal Agricultural Research Council., vol.2: 295-303.*
- 3) K.B. Koirala, D.B. Gurung, C.B. Kunwar, M. Tripathi, T. Pitambar, G. Bhandari, B. Bhandari, J. Shrestha, T.B. Karki, K. Dhital, B.R. Baral, P. A. dhikari, **B.B. Achhami**, S.B. B.K., K.P. Bhurer, B.N. Chaudhari, J.B. Chhetri, 2013. Evaluation of Multinational Companies’ Maize Hybrids during Winter Season of 2010-2012, *In: Giri Y P, Y G Khadka, B N Mahato, B P Sah, S P Khatiwada, M R Bhatta, B K Chettri, A K Gautam, D Gauchan, A R Ansari, J D Ranjit, R Shrestha and B Sapkota (eds). 2014. Proceedings of the 27th National Summer Crops Workshop held on 18 – 20th April 2013 at National Maize Research Program, Rampur, Chitwan. Nepal Agricultural Research Council., vol.2: 163-172.*
- 4) Thakur, P., G.S. Bhandari, and **B. B. Achhami**, 2013. Relative susceptibility of maize genotypes to maize stem borer, *Chilo partellus*, under field condition. *In: Giri Y P, Y G Khadka, B N Mahato, B P Sah, S P Khatiwada, M R Bhatta, B K Chettri, A K Gautam, D Gauchan, A R Ansari, J D Ranjit, R Shrestha and B Sapkota (eds). 2014. Proceedings of the 27th National Summer Crops Workshop held on 18 – 20th April 2013 at National Maize Research Program, Rampur, Chitwan. Nepal Agricultural Research Council., vol.2: 315-317.*
- 5) **Achhami, B.B.**, P. Thakur, and G.S. Bhandari, 2012. Retrospective and prospective of entomological research and development in Central Development Region of Nepal. The paper presented on 1st National Entomological Review Meeting at Khumaltar, Nepal.
- 6) Gautam, P., P. N. Sharma, H. P. Pathak, **B. B. Achhami**, and A. Aryal, 2007. Field level infestation (Inoculum) of *Sitophilus zeamais* Motschulsky on maize, *In: Gurung D. B., D. C. Paudel, G. K. C., S. R. Upadhya and B. B. Pokharel (eds.)*, Proceedings of the 25th National Summer Crop Research Workshop on Maize Research and Production in Nepal, June 21- 23, 2007, at Nepal Agricultural Research Institute, Nepal Agricultural Research Council (NARC), Khumaltar, Nepal, 276-277.

- 7) Bhurer, K. P., P. C. P. Chaurasia, M. P. Sah, G. Thakur, R. C. Bhandari, **B. B. Achhami**, S. Bista, J. B. Prasad, R. K. Rajak, and K. K. Srivastav, 2007, Varietal development research works for boro rice at Parwanipur 2003/04-2006/07, paper presented on 25th Summer Crop Research Workshop on Maize Research and Production in Nepal, June 21-23, 2007, at Nepal Agricultural Research Institute, Nepal Agricultural Research Council (NARC), Khumaltar, Nepal.

Workshops and Trainings

1. **Workshop/Training on field and laboratory techniques for entomological research**, from 14-19th June, 2015, Entomology Division, Khumaltar, Lalitpur, Nepal.
2. 12th Asian Maize Conference and Expert Consultation on “**Maize for Food, Feed, Nutrition and Environmental Security**” Bangkok, Thailand, October 30–November 1, 2014. CIMMYT, Mexico D.F. and APAARI, Bangkok, 133-140.
3. **Use of Entomopathogens in insect pest management**, Entomology Division, Nepal Agricultural Research Council (NARC), USAID-funded Asia Farmers-to-farmers (F2F) Program Winrock International, from 3rd to 5th November, 2014.
4. **Crop Experimental Design and Data Analysis (CEDDA)**, Nepal Agricultural Research Council (NARC), International Maize and Wheat Improvement Center, Hill Maize Research Project (HMRP), from 31st August to 3rd September 2014, Nepal.
5. **Insect Taxonomy and Biodiversity**, Rampur Campus Chitwan, Nepal, from 25-26 April, 2013.
6. **Data Management**, Cereal Systems Initiative for South Asia, Chitwan Hub, Nepal, from 13-14 October, 2011.
7. **Energy Production from Biomass in the European Union**, University of Foggia, Erasmus Intensive Program, Foggia, Italy, from 9th to 24th June 2010.
8. **Environmental Pollution-Cause, Consequences and Control**, Harikhetan Multiple Campus, Birgunj, Parsa, Nepal, 2nd September 2006.
9. **Bio-control of Pest**, Federal Research Station for Agro-Ecology and Agriculture (FAL), Zurich, Switzerland at Rampur, Nepal, 18th to 21st February 2003.
10. **Sustainable Agriculture and Organic Farming**, Appropriate Agricultural Alternative, Dahikot, Gamchha, Bhaktapur, Nepal, 7th to 17th October, 1998.

Languages

Nepali: Native

English: Fluent

Computer skills

Good knowledge on MS-Word, MS-Excel, MS-PowerPoint, GenStat, MSTAT, SPSS, and R

Awards and Fellowships

2009-2011: Netherlands Fellowship Program, Wageningen University and Research Center, The Netherlands.