

Profile

Dr. Awadhesh Kumar Tripathi



Designation: Principal Scientist
Division of Soil Biology

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Research specialization:

My first posting was in the erstwhile Nitrogen Section of the Institute. During that period I had worked on nitrogen management in soybean-wheat cropping system, manipulation of source and sink on nitrogen fixation in soybean. Later, I was placed in the Division of Soil Chemistry and fertility. Here, I had worked on changes in organic and inorganic fraction of nitrogen and sulphur in Eutrocept, Typic haplustert and Kandic paleustalf soils after long term cropping with different fertilizers and organic manures inputs, sulphate sorption and desorption characteristics in relation to properties of some acid soils and development of methodology for soil fertility mapping using GIS and GPS tools. At present time I am working in soil biology division on the subject on-farm production and evaluation of compost, vermi-compost and enriched compost. I had also worked on phytoremediation of soils contaminated with heavy metals.

Professional Experience:

I had joined the Agricultural Research Service (ARS) as a scientist (Soil Science: Soil Chemistry/Fertility/Microbiology) at ICAR-NAARM, Hyderabad on 05/08/1991 for foundation course training for six months and after completion of training I had been transferred to ICAR-CSSRI, Karnal (Haryana) for six months subject matter training. On regular posting, I had joined the ICAR-Indian Institute of Soil Science, Nabi Bagh, Bhopal on 25/07/1992. Since then I had worked in different positions/capacities in the same Institute. I got promoted to Scientist (SS) in the year 1996, Senior Scientist in the year 2000 and Principal Scientist in the year 2008.

Awards and Honours:

- **Doreen Mashler Award (2006)** ICRISAT(International) Greening Landscapes and Improving Livelihoods under the Participatory Watershed Management for the Semi- Arid Tropics. Team:A. K. Mishra, K.P. Raverkar, R. S. Chaudhary, **A. K. Tripathi**, D.D. Reddy, K. M. Hati, S. Ramana and K. G. mandal

- **Sri Ram Puruskar (FAI)** Best Paper award (2000-2001) Anand Swarup, **A. K. Tripathi** and A. K. Mishra. Saghan Krishi Mein Poshak Tatvoin Ki Ubharti Hui Kamia Aur Unko Dur Karne Ke Upay.
- **Shri Ram Purushkar**, Second prize of Rs. 7500/- On 10-12-14 for the Best article published in **Khad Patrika**, December, 2013 issue entitled “Sukshma Poshak Tatwo Ki kami Ke Lakshan va Prabandh” by **A. K. Tripathi**, A. K. Shukla, M.C. Manna and A. Subba Rao.

Top Ten publications:

1. **A. K. Tripathi**, T.A. Singh and M. Singh (1997). Leaching losses and use efficiency of N as influenced by modified gypsum urea. **J. Indian Soc. Soil Sci.**, 45, 4, 250-252.
2. T. R. Rupa, **A. K. Tripathi**, Ch. Srinivasa Rao, K.N.Singh, and A. Subba Rao (2001). Distribution and plant availability of copper fractions following copper sulphate and FYM applications. **Journal of Plant Nutrition and Soil Science**, 164, 451-456.
3. Muneshwar singh, **A. K. Tripathi**, K. Sammi reddy and K.N. Singh (2001). Changes in the forms, distribution and balance of soil phosphorus as influenced by repeated application of fertilizer P and manure in soybean – wheat on a Vertisol. **Journal of plant Nutrition and soil Science**, 164, 691-696.
4. K. Sammi Reddy, **A. K. Tripathi**, M. Singh, Anand Swarup and K. Sudhir (2002). Changes in sulphur fraction and S mineralization in a Kandic Paleustalf after long term cropping with fertilizer and Farm Yard Manure applications. **Agrochimica**, 46: 3-4, 123-137.
5. Muneshwar Singh, **A. K. Tripathi** and D. Damodar Reddy (2002). Potassium balance and release kinetics of non exchangeable K in a Typic Haplustert as influenced by cattle manure application under Soybean-Wheat system. **Australian Journal of Soil Research**, 40:533-541.
6. P.K. Ghosh, P. Ramesh, K.K. Bandhyopadhyay, **A. K. Tripathi**, K. M. Hati, A. K. Misra and C.L. Acharya (2004). Comparative effectiveness of cattle manure, poultry manure, Phosphocompost and fertilizer-NPK on three cropping systems in Vertisols of semi arid tropics. I-Crop yield and system pertem performance, **Bioresource Technology**, 95,77-83.
7. M.C. Manna, A. swarup, R.H. wanjari, Y.V. Singh, P.K. Ghosh, K.N. Singh, **A. K. Tripathi** and M.N. Saha (2006). Soil organic matter in a west Bengal Inceptisol after 30 years of multiple cropping and fertilization. **Soil Sci. Soc. Am. J.** 70: 121-129.
8. P.K. Ghosh, M.C. Manna, K.K. Bandhyopadhyay, Ajay, **A. K. Tripathi**, R.H. Wanjari, K.M. Hati, A.K. Mishra, C.L. Acharya and A. Subba Rao (2006). Interspecific Interaction and Nutrient use in Soybean/Sorghum Intercropping system. **Agronomy Journal**. 98:1097-1108.
9. Ghosh, P.K., **A. K. Tripathi**, K.K. Bandyopadhyay and M.C. Manna (2009). Assessment of nutrient competition and nutrient requirement in soybean/sorghum-intercropping system. **European Journal of Agronomy**, 31: 43-90.
10. Mandal, K.G., Hati, K.M., Misra, A.K., Bandyopadhyay, K.K. and **Tripathi, A. K.** (2013). Land surface modification and crop diversification for enhancing productivity of a Vertisol. **International Journal of Plant Production**, 7 (3): 455-472.