

Name

Professor (Dr.) R.S. Antil

Principal Advisor

**Department**

Amity Food & Agriculture Foundation
Amity University Uttar Pradesh, Noida - 201313

Qualifications

Ph.D. (Soil Science), 1990, GB Pant University of Agri. & Tech. Pantnagar
M.Sc (Ag.) Soil Science, 1979, CCS Haryana Agri. University, Hisar
B.Sc. (Hons) Agri., 1977, CCS Haryana Agri. University, Hisar

Experience

41 years of teaching/research /extension/administrative experience

Current Courses Taught

Advances in Soil Fertility Management

Research Interests

Rural and urban wastes utilization, land use and management practices & climate change on N cycling and C sequestration, Integrated nutrient management and management of sodic and sewer/industrial waste waters

Teaching Interests

Soil Science, Soil Fertility and Plant Nutrition, Fertilizer Management and Environmental Pollution

Extension activities

Executed planning, implementation and evaluation of extension programme in Haryana state through KVKs

Developed technologies viz. Integrated Nutrient Management, basmati rice grown organically and rice straw composting etc. and Incorporated in Package and Practices for Crops of the University

Updated and published Package of Practices for Rabi, Kharif and Horticulture Crops.

Published Package of Practice for Home Science for the first time

Established 'Single Window System' at Kisan Call Centre; community radio stations at KVKs.
Upgraded the University exhibition and strengthened, and soil testing laboratories

Organized Agricultural Officers' Workshop for *Rabi* and *Kharif* crops, Krishi Mela (*Rabi and Kharif*) and Kisan Diwas

Demonstrated technologies at farmers field and organized field days, Mini Kisan Melas campaigns, Kisan Goshthies/Training camps, group meetings and Udyan Goshthies/Gyan Diwas/Kheti Diwas for the benefit of the farmers.

Publications (Top 20)

A) ORCID ID: <http://orcid.org/0000-0002-7134-4025>

B) Google Scholar ID

https://scholar.google.com/citations?hl=en&user=LOYOS_EAAAAJ&view_op=list_works&sortby=pubdate

1. Sheoran, Sunita, Dev Raj, Antil, R.S., Mor, V.S. and Grewal, K.S. (2020) Soil microbial properties influenced with long term application of manures and fertilizers. *Indian J. Agric. Sci.* 90: 178-182 (**NAAS impact factor 6.23**).
2. Meena, M.D., Yadav, R.K., Narjary, B., Yadav, Gajender, Jat, H.S., Sheoran, P., Meena, M.K., Antil, R.S., Meena, B.L., Singh, H.V., Meena, Vijay Singh, Rai, P.K., Ghosh, Avijit, Moharana, P.C. (2019). Municipal solid waste (MSW): Strategies to improve salt affected soil sustainability: A review. *Waste Management* 84: 38–53 (**NAAS impact factor 10.22**)
3. Antil, R.S. (2015). Problems and prospectus of utilization of sewage and industrial wastewaters in agriculture. *Toxicol. Environ. Chem.* 96(8): 1260-1271 (**NAAS impact factor 6.90**)
4. Dev Raj and Antil, R.S. (2012). Phytotoxicity evaluation and response of wheat to agro-industrial waste composts. *Arch. Agron. Soil Sci.* 58: 73-84 (**NAAS impact factor 8.14**)
5. Dev Raj and Antil, R.S. (2012). Evaluation of maturity and stability parameters of composts prepared from farm wastes. *Arch. Agron. Soil Sci.* 58: 817-832 (**NAAS impact factor 8.14**)
6. Dev Raj and Antil, R.S. (2011). Evaluation of maturity and stability parameters of composts prepared from agro-industrial wastes. *Biores. Techn.* 102: 2868-2873 (**NAAS impact factor 11.65**).
7. Antil, R.S., Bar-Tal, A., Fine, P. and Hadas, A. (2011). Predicting N and C mineralization of composted manure and sewage sludge in soil. *Compost Sci. Util.* 19: 33-43 (**NAAS impact factor 6.70**)
8. Antil, R.S. and Singh, M. (2007). Effects of organic manures and fertilizers on organic matter and nutrients status of the soil. *Arch. Agron. Soil Sci.* 53: 519-528 (**NAAS impact factor 8.14**)
9. Gerzabek, M.H., Antil, R.S., Kogel-knabner, I., knicker, H., Kirchmann, H. and Haberhauer, G. (2006). How are soil use and management reflected by soil organic matter characteristics: a spectroscopic approach. *Eur. J. Soil Sci.* 57: 485-494 (**NAAS impact factor 9.48**)

10. Antil, R.S., Gerzabek, M.H., Haberhauer, G. and Eder, G. (2005). Long-term effects of cropped vs fallow and fertilizer amendments on soil organic matter. 1. Organic carbon. *J. Plant Nutr. Soil Sci.* 168: 108-116 (**NAAS impact factor 8.10**).
11. Antil, R.S., Gerzabek, M.H., Haberhauer, G. and Eder, G. (2005). Long-term effects of cropped vs fallow and fertilizer amendments on soil organic matter. 2. Nitrogen. *J. Plant Nutr. Soil Sci.* 168: 212-218 (**NAAS impact factor 8.10**).
12. Antil, R.S., Lovell, R.D., Hatch, D. and Jarvis, S.C. (2001). Mineralization of nitrogen in permanent pastures amended with fertilizer or dung. *Biol. Fertil. Soils* 33: 132-138 (**NAAS impact factor 9.68**).
13. Hatch, D, Lovell, R.D., Antil, R.S., Jarvis, S.C. and Owen, P. (2000). Nitrogen mineralization and microbial activity in permanent pasture amended with fertilizer or dung. *Biol. Fertil. Soils* 30: 288-293 (**NAAS impact factor 9.68**).
14. Gupta, A.P., Narwal, R.P. and Antil, R.S. (1998) Sewer waters composition and their effect on soil properties. *Bioresour. Technol.* 65: 171-173 (**NAAS impact factor 11.65**).
15. Narwal, R.P., Antil, R.S. and Gupta A.P. (1992). Soil pollution through industrial effluent and its management. *J. Soil Contamination* 1: 265-272 (now **Soil Sediment Contamination**) (**NAAS impact factor 7.21**).
16. Antil, R.S., Narwal, R.P. and Gupta, A.P. (1992). Urease activity and urea hydrolysis in soils treated with sewage. *Ecol. Engg.* 1: 229-237 (**NAAS impact factor 8.91**).
17. Antil, R.S., Gangwar, M.S. and Kumar, V. (1992). Transformation and movement of urea in soil as influenced by water application rate, moisture management regime and initial moisture content. *Arid Soil Res. Rehabil.* 6: 319-325 (**now Arid Land Res. Manag.**) (**NAAS impact factor 7.02**).
18. Yadav, D.S., Antil, R.S., Singh, M. and Kumar, V. (1986). Effect of N and Zn on number of nodules, nodule weight, leghaemoglobin content, N utilization and fixation in cowpea (*Vigna unguiculata* L. Walp.). *Agrochimica* 30: 253-257 (**NAAS impact factor 6.45**).
19. Yadav, D.S., Antil, R.S., Kumar, V. and Singh, M. (1985). Effect of P and Zn application on dry matter yield and their concentration and uptake in cowpea (*Vigna unguiculata* L. Walp.). *Z. Pflanzen. Bodenk.* 148: 233-240 (now *J. Plant Nutr. Soil Sci.*) (**NAAS impact factor 8.10**).
20. Gupta, A.P., Gupta, V.K., Antil, R.S. and Nath, J. (1985). Possible losses of plant nutrients from biogas slurry. *Agric. Waste* 12: 317-320 (now *Biores. Techn.*) (**NAAS impact factor 11.65**).

Professional Affiliations

Former Professor & Head, Department of Soil Sciences, CCS HAU Hisar

Former Director Extension Education, CCS HAU Hisar

Life member of Indian Society of Soil Science

Member of Japanese Society of Soil Science and Plant Nutrition

Member Board of Studies, College of Agriculture, CCS HAU Hisar

Convener, College Project Review Committee, College of Agriculture, CCS HAU Hisar

Chairman, Departmental Advisory Committee, Depart. of Soil Sci., CCS HAU

President, CCS HAU Chapter of Indian Society of Soil Science.

Member of the Haryana State Council for Science and Technology for administrative and management of the affairs and finance of the state council

Member of Court and Budget Advisory Committee of CRS University

Member of Advisory committee of NABARD

Member, PNB farmers Training Centre, Suchakhera

Member, AIR Advisory Committee, Hisar

Member, HAMETI Jind Coordination Committee

Member, Academic Council, CCS HAU Hisar

Secretary, Extension Advisory Committee, CCS HAU Hisar

Professional Activities

Principal Advisor (Soil Sciences)

Reviewer of various national & International Scopus rated journals (Journal of Indian Society of Soil Science, Archives of Agronomy and Soil Science, Biology and Fertility of Soils, Waste and Biomass Valorization, Journal of Soil Science and Plant Nutrition, Cereal Research Communications and Journal of Agricultural Science and Technology)

Honored to be an expert member for recruitments, assessment, examiner and research review committee of different universities.

Organized several training programmes, seminar/symposium as Chairman, and Secretary/Convener

Talks/Lead/Plenary Talks and Contributed papers on International / National Platforms

Other Achievements (Awards and Fellowships)

Awards

- International Potash Institute (IPI)-Fertilizer Association of India (FAI) Award 2015
- Dhuru Morarji Memorial FAI Best Paper Award 2001, 2011 and 2014 in Agricultural Sciences
- Sriram FAI Best Paper Award 2013 in Agricultural Sciences.
- Best Oral Paper presentation Award 2012
- Potash and Phosphate Institute of Canada Distinguish Teacher Award 2010
- FAI Golden Jubilee Award 2009
- Awarded advance increments in 1988 by CCS HAU, Hisar in recognition of outstanding research work done in the field of Soil Science

- Invited for Keynote Presentations to deliver Key Note Addresses as well as Invited Lectures in National and International conferences

Fellowships

- Visiting Professor (JSPS Invitation Fellow) at Chiba University, Japan (Oct. 2009 to Aug. 2010)
- Post-doctoral Fellow at Univ. of Aberdeen, Scotland, UK (Sept. to Nov. 2007)
- Post-doctoral Fellow at Austrian Research Centers, Siebersdorf, Austria (Jan. 2003 to Jan. 2004)
- Post-doctoral Fellow at Institute of Soils, Water and Environ. Sci., Volcani Center, Israel (May to Dec. 2002)
- Post-doctoral Fellow at Wageningen Agric. Univ., Netherlands (May to Oct. 1998)
- Post-doctoral Fellow at Catholic University, Leuven, Belgium (Feb. to April 1998)
- Post-doctoral Fellow at IGER, UK (May 1997 to Jan. 1998)
- Visiting Scientist (Guest Scholarship funded by Swedish Institute) at the Swedish University of Agricultural Sciences, Uppsala, Sweden (Jan. to Dec. 1988)
- Honorary staff status provided by University of Aberdeen, Scotland, UK in 2007 and Chiba University, Japan in 2010
- Fellow, Japan Society for Promotion of Science and Stapledon Foundation, UK and Austrian Science Foundation

Contact Information

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