

Ambika Prasad Sahu, Ph.D.
Professor,
Department of Soil & Water Conservation Engineering
College of Agricultural Engineering & Technology



Education

- Ph.D. (Agril. Engg.) in Soil and Water Conservation Engineering, 2005
- M.Sc. (Ag. Engg. & Tech.) in Soil and Water Conservation Engineering, 1990
- B.Sc. (Ag. Engg. & Tech.), 1988

Experience

Working in OUAT Bhubaneswar since 1990 in different capacities in teaching and research and as Associate Professor from 2005 and Professor, since Nov., 2012 in the Department of Soil and Water Conservation Engineering

Other important assignments

- Officer-in-Charge, College Reports, CAET

Courses taught

- Watershed Hydrology (B. Tech.)
- Soil and Water Conservation Engineering (B. Tech.)
- Soil and Water Conservation Structures (B. Tech.)
- Watershed Hydrology (M. Tech.)
- Design of Micro and Sprinkler Irrigation System (M. Tech.)
- Design of Pumps for Irrigation and Drainage (M. Tech.)

Students guided

Ph.D. Research Guidance: One student continuing
Post Graduate Research Guidance: 09 students
B. Tech. Projects Guided: 34 students

Significant research contributions

- LDPE film lining and vetiver grass bunding of irrigation channels for seepage control and channel slope stability.
- Performance and ergonomic evaluation of manual pump for efficient and effective use by farmers.
- Designed and developed a low lift pedal operated diaphragm pump for irrigation purposes based on operators' comfort, which can be used by small and marginal farmers for growing cash crops.
- Watershed evaluation
- Developed one low cost digital soil moisture meter

Present research interests

- Irrigation water management
- Micro-irrigation

Honours and Awards

- Received International Award - "Engineering Applications Award" in 1993 from World Bank, Vetiver Information Network, Washington D. C., USA.
- Also received some awards for presentations in seminars
- Expert member in OPSC and some SAUs

ICAR Summer/Winter School conducted

- Course Coordinator, ICAR short course on "Recent Advances in Pressurised Irrigation System for Enhancing Water Use Efficiency" 30th October to 8th November, 2018

Research Projects

- Co-Principal Investigator in Information Technology Research Academy (ITRA) Project on "Improving ground water levels quality through enhanced WUE in Eastern Indian Agriculture" funded by ITRA, Govt. of India (Project period 2015-2018)

Publications

Authored 36 research papers in peer reviewed journals and more than 25 technical articles

Selected publications

- Mohanty, B., Senapati, S. C., Sahu A. P. and Panigrahi, B.2016. Pressure variation in drip laterals as affected by single and double inlet systems and sub main sizes. Agricultural Engineering Today, ISAE, Vol. 40(4): 7-12.
- Sahu A. P. and Sahoo, N. 2014. Impact assessment of ACA watersheds through mid-term evaluation in Kalahandi district of Odisha, India. International Journal of Engineering Research & Technology (IJERT), Vol. 3 (9): 654-661.
- Sahu A. P., Sahoo, N., Srinivasulu, M. and Senapati, S. C. 2014. Hydraulics of micro tube emitter through perforated tube in gravel- soil medium. Progress in Science and Engineering Research Journal, Bimonthly International Journal PISER 15, Vol.02 (05/06): 060-066.
- Naik, B. S., Panda, R. K., Nayak, S. C., Sharma, S. D. and Sahu, A. P. 2013. Impact of pitcher material and salinity of water used on flow rate, wetting front advance, soil moisture and salt distribution in soil in pitcher irrigation- A laboratory study. Irrigation and Drainage, John Willey & Sons. Ltd. Published online in Wiley Online Library.
- Sahu, A. P., Sharma, S. D. and Nayak, S. C. 1992. Stability of Slopes of Polyethylene Lined Grass Bunded Irrigation Channels. Jr. of Indian Water Resources Society, Vol. 12 (1&2): 39-42.

Contact details:

Department of Soil & Water Conservation Engg.
College of Agricultural Engineering and Technology
Odisha University of Agriculture and Technology,
Bhubaneswar- 751003, Orissa State, India
Email: aps_6000@yahoo.co.in
Ph. +91-9437052783