



## Vijay P. Singh, PE

**Vijay P. Singh, PE**, is the recipient of the 2023 Lalit and Aruna Verma award for Excellence in Global Engagement for his work as an exceptional researcher, prolific writer, and a highly regarded and respected hydrologist.

Singh is a distinguished professor, regents professor, and Caroline and William N. Lehrer Distinguished Chair in Water Engineering at Texas A&M University.

Singh has developed theories and models in surface irrigation, infiltration modeling, evapotranspiration modeling, soil erosion, flood and drought hydrology, watershed modeling, non-point-source water quality modeling, network evaluation and design, river geometry, food-water-energy nexus, and climate change impacts which have advanced agricultural engineering. Singh developed the kinematic wave theory of surface irrigation, erosion from upland areas and watershed runoff. Using systems theory, he derived a general infiltration equation that specializes in several infiltration equations used in agricultural engineering. He developed entropy theory of infiltration and soil moisture movement and entropy-copula theory for design of hydrologic networks, hydraulic geometry, and compound extremes. His theory of pollutant dispersion in open channels is widely acclaimed. His work on homotropy analysis is unique in the profession. He has mentored countless young agricultural engineers who have gone on to become leaders in their own right. His publications include 37 books, 87 edited books, over 1500 journal articles, 130

book chapters, and 330 conference proceedings papers. He has Google Citations of more than 93,530, h-index of 124, and i-10 index of 1162.

A 11-year ASABE member. Singh is also a member of National Academy of Engineering and holds memberships all over the world in numerous international and national science academies. He has served as president of American Institute of Hydrology; president of American Academy of Water Resources Engineers; president of International Association for Water, Environment, Energy, and Society; and chair of Watershed Council of American Society of Civil Engineers (ASCE).

He has served as editor-in-chief of five journals and two book series and has served/serves on editorial boards of more than forty journals and three book series. He has given more than 170 keynote lectures and over 300 invited seminars in over 50 countries, and has organized more than 25 international conferences. He has served on numerous national and international panels and has earned 4 honorary doctorates and over 110 national and international awards. Singh is a fellow and distinguished member of the ASCE, distinguished honorary member of International Water Resources Association, and a fellow of the American Water Resources Association.