

Dr. Gurpal S. Toor

Assistant Professor Soil and Water Science Department

Dr. Toor is an assistant professor of environmental soil chemistry and water quality. His research focus is on investigating processes and mechanisms controlling the fate and transport of pollutants (nutrients, metals, pesticides, emerging contaminants) in urban landscapes and develop innovative management practices to minimize losses of pollutants to surface and sub-surface waters in urbanized and rapidly urbanizing watersheds. Dr. Toor received his PhD in environmental soil science from Lincoln University in New Zealand and his post-doctoral training from University of Delaware.

CURRENT RESEARCH

"Florida Onsite Sewage Nitrogen Reduction Strategies Study: Technology Evaluation, Characterization of Environmental Fate and Transport, and an Assessment of Costs"

2009-2014

Funding Agency: Florida Department of Health

Award Amount: \$5,000,000

Co-Principal Investigator: Gurpal Toor

"Development of the IFAS Vegetation Mobile Mapping System (IVMMS) for the Natural Resources, Agriculture, and Water Quality Applications"

2008-09

Funding Agency: UF/IFAS Office of the Dean, Research Innovation Fund

Award Amount: \$49,940

Co-principal Investigator: Gurpal Toor

"Tracking Sources of Microbial Pathogens on Packinghouses to Ensure Food Safety of Florida Grown Tomatoes"

2008-09

Funding Agency: Florida Tomato Committee

Award Amount: \$28,988

Principal Investigator: Gurpal Toor

"Developing Solutions to Manage Culls and Wastewater on Tomato Packinghouses"

2008-10

Funding Agency: U.S. Environmental Protection Agency

Award Amount: \$69,918

Principal Investigator: Gurpal Toor

"Linking Terrestrial Nutrients to Red Tide Incidences in the Tampa Bay: A Preliminary Investigation: A Preliminary Investigation "

2007-08

Funding Agency: UF/IFAS Office of the Dean, Research Innovation Fund

Award Amount: \$49,912

Principal Investigator: Gurpal Toor

“Characterization of Organic Compounds in Nursery Reclaimed Water”

2007-08

Funding Agency: FNGLA, FNGLA Endowed Research Fund

Award Amount: \$5,000

Principal Investigator: Gurpal Toor

RECENT SELECT PUBLICATIONS

Chahal, M.K., G.S. Toor, & P. Brown. 2010. Trace metals and polycyclic aromatic hydrocarbons in an urbanized area of Florida. *Soil and Sediment Contamination*, 19 (In Press).

Banger, K., G.S. Toor, L. Ma, & T. Chirenje. 2010. Distribution of polycyclic aromatic hydrocarbons in urban soils of Miami, Florida. *Soil and Sediment Contamination*, 19 (In Press).

Toor, G.S. 2009. Enhancing phosphorus availability in low-phosphorus soils by using poultry manure and commercial fertilizer. *Soil Science*, 174:358-364.

Toor, G.S., & B.E. Haggard. 2009. Phosphorus and trace metal dynamics in soils amended with poultry litter and granulates. *Soil Use and Management*. DIO:10.1111/j.1475-2743.2009.00235.x.

Toor, G.S., R.D. Harmel, B.E. Haggard, & G. Schmidt. 2008. Evaluation of regression methodology with low-frequency water quality sampling to estimate constituent loads for ephemeral watersheds in Texas. *Journal of Environmental Quality*, 37:1847-1854.

Toor, G.S., S. Hunger, J.D. Peak, J.T. Sims, & D.L. Sparks. 2006. Advances in the characterization of phosphorus in organic wastes: environmental and agronomic applications. *Advances in Agronomy*, 89:1-72.

Toor, G.S., B.J. Cade-Menun, & J.T. Sims. 2005. Establishing a linkage between phosphorus forms in dairy diets, feces, and manures. *Journal of Environmental Quality*, 34:1380-1391.

Toor, G.S., L.M. Condrón, B.J. Cade-Menun, H.J. Di, & K.C. Cameron. 2005. Preferential phosphorus leaching from an irrigated grassland soil. *European Journal of Soil Science*, 56:155-167.

Toor, G.S., L.M. Condrón, H.J. Di, & K.C. Cameron. 2004. Seasonal fluctuations in phosphorus loss by leaching from a free draining grassland soil. *Soil Science Society of America Journal*, J. 68:1429-1436.

Toor, G.S., L.M. Condrón, H.J. Di, K.C. Cameron, & B.J. Cade-Menun. 2003. Characterization of organic phosphorus in leachate from a grassland soil. *Soil Biology & Biochemistry*, 35:1317-1323.

CONTACT INFORMATION

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