

Laurent Bahaminyakamwe

Research Associate III, Department of Agronomy and Soils.

Education:

B.S. University of Burundi, Bujumbura, Burundi, 1981.

M.S. Auburn University, Soil Chemistry, 1991.

Ph.D. Auburn University, Soil Chemistry, 1994.

Experience:

Auburn University: Research Associate III, from April 1997 to present.

-AAES Project: "Copper mobility in soils as affected by low molecular weight organic acids". Evaluate the impact of agriculture use of high-copper containing biosolids.

-AAES Project: "Lead adsorption and calcium-lead exchange." In this project, we are researching new ways to reclaim soils contaminated with heavy metals.

-EPA Project: "Investigation of PCE (perchloroethylene) entrapment and surfactant enhanced recovery of PCE." In this project, we were interested in using surfactants to recover PCE from contaminated aquifers.

Auburn University: Research Associate, from October 1995 to April 1997.

Soil Testing Laboratory of Alabama. Ground Water Research Laboratory.

Fate and transport of Hydrazinium Chloride in sands and soils: Breakthrough Curves.

Auburn University: Research Associate, from September 1994 to August 1995.

Plant Pathology Department. Effects of drought and soluble sugars on aflatoxin production by *Aspergillus flavus* in peanuts. Greenhouse study.

Auburn University: Graduate student, from September 1991 to August 1994.

Developed and tested a method for aluminum speciation when aluminum is in equilibrium with different organic acids (citric, oxalic, and malic acid) in presence of clays (kaolinite and bentonite) and resins (Dowex and amberlite).

Auburn University: Graduate student, from June 1988 to August 1991.

Evaluated the effects of organic acids (citric, oxalic, malic, and succinic acid) on calcium deficiency in cultivated and forested soils using cotton seedlings.

University of Burundi: Teacher Assistant, from January 1982 to November 1987.

Determined the agronomic value of Matongo phosphate rocks of Burundi using field, greenhouse, and laboratory experiments on acid soils.

Evaluated the agronomic value of different calcareous rocks of Burundi. Field, greenhouse, and laboratory experiments on acid soils.

IRAT-CIRAD Montpellier (France): Short training, from July to November 1985.

Isotopic dilution (^{32}P) method for the evaluation of the agronomic value of Matongo phosphate rocks. Greenhouse and laboratory experiments.

Université Libre de Bruxelles (Belgium): Short training, from April to July 1984.

Applied different techniques for agronomic evaluation of Matongo phosphate rocks. Greenhouse and laboratory experiments.

Scholastic Award:

Certificate for Outstanding Achievement in Academic Excellence. May, 13, 1992.
Auburn University, Auburn..

Society Membership: Member of the ASA-CSSA-SSSA.

Publications:

- Jalbert, M., J. H. Dane, and L. Bahaminyakamwe. 2003. Influence of porous medium and NAPL distribution heterogeneities on partitioning inter-well tracer tests: a laboratory investigation. *Journal of Hydrology*, 272 (1-4): 79-94.
- Jiang, J., J. H. Dane, and L. Bahaminyakamwe. 2002. Pressure transducer and gamma radiation system. User manual. Department of Agronomy and Soils. 28 pages. July 2002.
- Bahaminyakamwe, L., J. H. Dane, and M. Jalbert. 2001. Lead adsorption and calcium-lead exchange isotherms in four selected soils of the southeastern region of the USA. Department of Agronomy and Soils Special Report. 51 pages. May 2001. Alabama Agricultural Experiment Station. Auburn University. Alabama
- Dane, J. H., M. Jalbert, and L. Bahaminyakamwe. 2001. Investigation of the entrapment and surfactant enhanced recovery of nonaqueous phase liquids in heterogeneous sandy media. Volume 3. Department of Agronomy and Soils Special Report. 92 pages. January 2001. Alabama Agricultural Experiment Station. Auburn University. Alabama.
- Dane, J. H., M. Jalbert, and L. Bahaminyakamwe. 1999. Investigation of the entrapment and surfactant enhanced recovery of nonaqueous phase liquids in heterogeneous sandy media. Volume 2A. Department of Agronomy and Soils Special Report. 170 pages. August 1999. Alabama Agricultural Experiment Station. Auburn University. Alabama.
- Dane, J. H., M. Jalbert, and L. Bahaminyakamwe. 1999. Investigation of the entrapment and surfactant enhanced recovery of nonaqueous phase liquids in heterogeneous sandy media. Volume 2B. Department of Agronomy and Soils Special Report. 170 pages. August 1999. Alabama Agricultural Experiment Station. Auburn University. Alabama.
- Dane, J. H., M. Jalbert, and L. Bahaminyakamwe. 1999. Investigation of the entrapment and surfactant enhanced recovery of nonaqueous phase liquids in heterogeneous sandy media. Volume 1. Department of Agronomy and Soils Special Report. 171 pages. July 1999. Alabama Agricultural Experiment Station. Auburn University. Alabama.
- Bahaminyakamwe, L. and J. F. Adams. 1990. Effects of Organic acids on calcium availability. Poster presented in Agronomy Annual Meeting in San Antonio, TX.
- Bahaminyakamwe, L. 1986. Etude de la valorization des ressources minieres du Burundi: cas des phosphates de Matongo. Rapport Technique. Bujumbura.
- Bahaminyakamwe, L. 1985. Etude de l'utilisation agronomique des phosphates naturels de Matongo-Bandaga (Burundi). Rapport de Stage. IRAT-CIRAD. Montpellier.