

## Joseph Asante

Earth Sciences Department  
Tennessee Tech University  
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### EDUCATION

Ph.D., Geoscience (Hydrogeology)  
Department of Geosciences  
University of Nevada Las Vegas

May 2012

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### PROFESSIONAL EXPERIENCE

#### University Teaching Experience

Assistant Professor

August 2013 – Present

Earth Sciences Department, Tennessee Tech University

- Instructor GEOL4810/5810, Environmental Aqueous Geochemistry
- Instructor GEOL 4711/5711, Hydrogeology (Lecture and Lab)
- Instructor GEOL 2500, Geologic Fundamentals: Algebra, Excel, and R statistical - Applications in Geology
- Instructor GEOL 4410/5410, Remote Sensing (Lecture and Lab)
- Instructor GEOL 1045, Earth Environment, Resources and Society: Climate Change, Fossil Fuel, and Renewable Energy (Lecture and Lab)

Visiting Assistant Professor

July 2012 – June 2013

Department of Geology, Oberlin College, Ohio U.S.A

- Instructor GEOL 242, Groundwater Hydrogeology (Lecture and Lab)
  - Instructor GEOL 264, Geology of Africa (Lecture)
  - Instructor GEOL 164, Introduction to Geological Construction of Africa (Lecture)
  - Instructor GEOL 235, Applied GIS (Lecture and Lab)
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**RESEARCH****Publications**

- Asante, J., and Kreamer, D., 2015, A new approach to identify recharge areas in the Lower Virgin River Basin and surrounding basins by multivariate statistics: *Mathematical Geosciences*, doi: 10.1007/s11004-015-9583-0 (in press).
- Asante, J., Kreamer, D.K., and Young, M., *Water Sources Lower Virgin River Basin: Evidence for Deep Groundwater Contribution from Geochemical Tracer Analyses* (In preparation)

**Abstracts**

- Asante, J., and Kreamer, D.K., *Water Sources, Lower Virgin River Basin: Evidence for Deep Groundwater Contribution from Geochemical Tracer Analyses*, NGWA Groundwater Summit, May 4 - 8, 2014 in Denver CO (abstract and oral presentation)
- Asante, J., Kreamer, D.K., and Young, M., *Evaluating Interbasin Flow and Groundwater-Surface Water Interactions, lower Virgin River Basin USA: Unusual Statistical and Graphical Analysis of Stable Isotopes, and Solutes*. NGWA Ground Water Summit in Garden Grove, CA, May 6 - May 11, 2012 (abstract and oral presentation)
- Asante, J., and Kreamer, D.K., *Basin Hydrochemistry and Related Flow Systems: Integrated Data Analytic Methods*. GSA Annual Meeting & Exposition, October, 9-12, 2011 (abstract and oral presentation)
- Asante, J., Kreamer, D.K., and Cross, C.L, *Enhancing Multivariate Statistical Characterization of Hydrochemical Groundwater Data: A Comparative Analysis of Clustering Methods*. GSA Joint Rocky Mountain/Cordilleran Conference, May 17-20, 2011 Logan, Utah (abstract and oral presentation)
- Asante, J. and Kreamer, D.K., *Enhancing the Definition of Hydrochemical Facies to Evaluate Recharge Sources and Hydrodynamics of the Lower Virgin Basin, USA*. Nevada Water Resources Association Annual Conference, March 2-4, 2010, Las Vegas, NV (abstract and poster presentation)

**Work in Progress/Students Advised**

- Elizabeth Weather, TTU Earth Sciences Department Senior Thesis. (Topic: The functioning of Karst Aquifer Systems: water sources and quality), Expected 2015
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