

JOHN C. VOLESKY, Ph.D.

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CURRENTLY:

Adjunct Professor of Geosciences

Brookhaven College
Farmer's Branch, Texas
January 2014 – Present

Teach: Earth Science (1401)
Earth Science II (1402)
Physical Geology (1403)
Environmental Science (1405)

Tarrant County College – NW Campus
Fort Worth, Texas
June 2018 – Present

Author

- Writing a nonfiction book “The Art of Science; Using the Scientific Method to Answer Interesting Questions.” I am using examples, which include the Mpemba Effect and Volcanoes with Zoned Magma Chambers (Valles Caldera).
- Most recent publication: John C. Volesky, Matthew I. Leybourne, Robert J. Stern, Jan M. Peter, Daniel Layton-Matthews, Sarah Rice & Peter R. Johnson (2017): Metavolcanic host rocks, mineralization, and gossans of the Shaib al Tair and Rabathan volcanogenic massive sulphide deposits of the Wadi Bidah Mineral District, Saudi Arabia, International Geology Review, DOI:10.1080/00206814.2017.1307789.

PAST EXPERIENCE:

Instructor of Geosciences

U.S. Air Force Academy
Colorado Springs, Colorado
August 2016 – May 2017

Taught: Remote Sensing (GEO 382)
Advanced Remote Sensing (GEO 482)

Intelligence Analyst

U.S. Department of Energy, Los Alamos National Laboratory National Nuclear Security Administration (NNSA)

Los Alamos, New Mexico

February 2010 – February 2011

Clearances: Q/TS/SCI

The Boeing Company (contractor providing support to DoD-NGA)

McLean, Virginia

October 2008 - February 2010

Clearances: Top Secret/SCI with CI polygraph

U.S. Department of Defense, The National Geospatial-Intelligence Agency (NGA)

Washington Navy Yard, Washington, D.C. and Denver, Colorado

January 2004 - October 2008

Clearances: Top Secret/SCI with CI polygraph

- Conducted research involving exploitation and analysis of imagery and geospatial analysis using ARCGIS.
- Researched collateral (Open and Classified) sources of information for use as background and support for analysis.
- Wrote and presented reports and briefs to members of the Intelligence Community, Military, and Government.
- Published over 50 Intelligence Products ranging from briefs to intelligence reports (in-depth research papers).
- Conducted analysis of Predator - Unmanned Aerial Vehicle (UAV) full motion video in direct support of forward deployed US and Coalition military units.

Teaching Assistant and PhD Graduate Student

University of Texas at Dallas

Richardson, Texas

1997 - December 2002

- The research for my dissertation focused on exploration for mineral deposits (gold-bearing massive sulfide deposits) and involved: the use of multispectral remote sensing data (ASTER and Landsat ETM+); geologic/structural data; and geochemical data.
- Fieldwork in Saudi Arabia - Spring 1999, Spring 2000, and Spring 2001 (a total of 2 months).
- Teaching Assistant in Remote Sensing, Oceans, and Rocks/Minerals
- National and International Presentations:
 - 2001 National Geologic Society of America Meeting in Boston
 - 2001 UNESCO-IUGS Gondwana Conference in Jeddah, Saudi Arabia
 - 2000 National Geologic Society of America Meeting in Reno
- Publications:
 - Leybourne, M.I., Peter, J.M., Layton-Matthews, D., Volesky, J.C., and Boyle, D.R., 2006, Mobility and Fractionation of Rare Earth Elements during Supergene Weathering and Gossan Formation and Chemical Modification of Massive Sulfide Gossan, *GeoChimica et Cosmochimica Acta*, Volume 70, Number 5, pages 1113-1127.
 - Volesky, J.C., Stern, R.J., and Johnson, P.R., 2003, Geologic Control of Massive Sulfide Mineralization in the Wadi Bidah Shear Zone, Southwestern Saudi Arabia, *Inferences from Orbital Remote Sensing and Field Studies*, *Precambrian Research*, Volume 123, Issue 2, pages 235-247.
 - Volesky, J.C., 2002, Massive Sulfide Deposits of the Wadi Bidah Mineral District, Saudi Arabia: Geologic Control of Mineralization; Remote Sensing and Mineral Exploration; Geochemical Exploration and Petrogenesis, Dissertation, The University of Texas at Dallas.
 - Volesky, J.C., and Stern, R.J., 2001, Remote Sensing and Mineral Exploration in the Arabian Shield: The Wadi Bidah Mining District Example, *Gondwana Research*, Volume 4, Issue 2, pages 198-200.

John C. Volesky, Ph.D.

EDUCATION:

University of Texas at Dallas

Richardson, Texas

Doctor of Philosophy Degree in Geosciences

December 2002 - GPA of 4.0

Master of Science Degree in Geosciences

May 1999 - GPA of 4.0

University of Kansas

Lawrence, Kansas

Bachelor of Science Degree in Chemistry

May 1989

REFERENCES:

Susan L. White, PhD
Brookhaven College
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Farmers Branch, Texas
972-860-4762
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Steve Gordon, PhD
US Air Force Academy
Department of Economics and Geosciences
Colorado Springs, Colorado
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Fort Worth, Texas
Geology Department
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