

Curriculum Vitæ (abbreviated)

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Personal Information

Name: David A. Vanko

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Education

B.A. - M.A. in Geology, 1976 Johns Hopkins University, Baltimore, Maryland.
Ph.D. in Geology, 1982 Northwestern University, Evanston, Illinois.

Academic Appointments

2010-present Dean, Jess and Mildred Fisher College of Science and Mathematics, Towson University, Towson, Maryland

2007- 2010 Acting Dean, Jess and Mildred Fisher College of Science and Mathematics

2001- 2007 Professor and Chairperson, Department of Physics, Astronomy and Geosciences, Towson University

1997 Visiting CNRS Research Fellow, University of Paris VI

1993-2001 Chairperson, Department of Geology, Georgia State University, Atlanta, Georgia

1992-1993 Acting Chairperson, Department of Geology, Georgia State University

1983-2001 Assistant Professor through Professor, Georgia State University

1982 Lecturer, Washington University in St. Louis

1981-1983 Research Associate, Washington University and the McDonnell Center for the Space Sciences

Major Accomplishments as FCSM Dean/Acting Dean

- Established the FCSM Advisory Board and began the FCSM Advisory Board Career Seminar Series
- Worked with University Advancement to obtain a \$160,000 gift from the Robert M. Fisher Memorial Foundation
- As Principal Investigator, created the Towson University Robert Noyce Scholarship Program funded by a five-year, \$900,000 grant from the National Science Foundation
- As Principal Investigator, spearheaded a \$1.395M Academic Research Infrastructure grant from the National Science Foundation
- As co-Principal Investigator, conceived the Baltimore Excellence in STEM Teachers program, funded with a \$2M Federal appropriation through NASA

- Worked with University Advancement and the Associate Vice President for Alumni Relations to establish the TU Field Station in Monkton, MD
- Helped write and then negotiate the MOU with the University System of MD to absorb the UM Biotechnology Institute's Education and Outreach unit

- Established the first Master Teacher position in the FCSM in support of STEM education
- Worked to obtain approval for the Professional Science Masters Degree program in Applied Physics
- Worked to obtain approval for the Bachelor of Science Degree program in Information Technology, and approval to offer the BS in IT degree in Harford County
- Began the FCSM Jess & Mildred Fisher Endowed Chair Lecture Series
- Began the FCSM Advisory Board Career Seminar Series
- Established an office for the Pre-Professional (pre-med, pre-dental) Programs
- Worked to establish the Glen Arboretum
- Worked to launch the School of Emerging Technologies

Professional Affiliations

Mineralogical Society of America (Fellow), American Geophysical Union, Geological Society of America, Geochemical Society, Geological Society of Washington, AAAS

Recent Honors

Golden Key National Honor Society, Honorary Member, 1999
Elected Fellow, Mineralogical Society of America, 1999
Sigma Xi (The Scientific Research Society), 2002
Sigma Pi Sigma (National Physics Honor Society), 2004

Significant Recent Appointments

JOIDES Science Steering and Evaluation Panel on the Dynamics of Earth's Interior (ISSEP), Ocean Drilling Program (ODP), 2000-2002.
Invited Ph.D. Defense Jury member, University of Paris, December 10, 1999.
Review panel member, National Science Foundation (2002-2010):
Ocean Sciences (OCE) – two panels.
Division of Undergraduate Education (DUE) – two panels.
Scientific Committee, ECROFI XVII (European Conference on Research on Fluid Inclusions), 2003, Budapest, Hungary.
Invited participant, International Continental Drilling Program Workshop on the “Chesapeake Bay Impact Crater,” Herndon, VA, September 2003.
Maryland State Geologic Mapping Advisory Committee, Maryland Geological Survey, Department of Natural Resources, 2004-present (Chairperson, 2006-present)
Organizing Committee, PACROFI IX, 2008, Reston, VA.
Maryland Space Grant Consortium, Oversight Committee, 2007-present.
Board of Directors, Building STEPS (Science Technology Education Partnerships), 2011-present.
Maryland Governor's Marcellus Shale Safe Drilling Initiative Advisory Commission (Chairperson), 2011-present.

Research Experience

General Interests

Igneous and metamorphic petrology, especially of the oceanic crust.
Fluid-rock interaction, with emphasis on ocean crust formation.
Applications of fluid inclusion analysis.

Recent Field Experience

Ocean Drilling Program, Leg 193 (56 days), JOIDES Resolution; igneous petrologist for Manus Basin active hydrothermal sulfide deposits (Papua New Guinea); Nov., 2000 to Jan., 2001.
Core logging/processing, International Continental Drilling Program core hole at Eyreville, VA, part of the Chesapeake Bay Impact Structure project, November-December, 2005.
Scientist aboard R/V Melville, July-August, 2006 (42 days). Manus Basin 2006 – Vienna Woods and PACMANUS hydrothermal fields, using Autonomous Benthic Explorer (ABE) and Jason II.

Summary

I have experienced 405 days at sea on various research vessels using dredging, multibeam sonar, deep sea drilling, manned and unmanned submersibles. I have made five dives in DSRV Alvin, to a maximum depth of 3,500 meters. In addition to deep-sea volcanoes, my field experience also includes visits to five active and many inactive volcanoes, and many other diverse geological sites.

Teaching Experience

Northwestern University: 1976-1981
University of Illinois at Chicago: 1980
Washington University, St. Louis: 1982
Georgia State University: 1983-2001
Towson University: 2001-present

Graduate Students

Master of Science: Robyn Piette (1987), Barbara Milby (1990), Jonathan Griffith (1991), Chifeng Gu (1994), Melissa Huner (1997), Phyllis Midkiff (1997), Sean Porter (1999), Autumn Yatabe (1999), Chris Tolleson (1999), Sandra Dowling (2000), Michelle Obukuro (2001).

Significant Administrative Experience

Department Chair, Georgia State University (1993-2001)
Senator, University Senate, GSU (1992-2001)
Professional Education Faculty (NCATE-accredited teacher preparation unit), GSU (1994-2001)
Chair of the Professional Education Faculty (1998-1999)
Department Chair, Towson University (2001-2007)
Resource Planning & Advisory Committee of the Towson University Senate (2002-2007)
Senate Ad hoc Committee on Faculty Workload (2004)
Acting Dean, Fisher College of Science and Mathematics, Towson University (10/2007-1/2010)
Dean, Fisher College of Science and Mathematics, Towson University (2010-present)

Editorial/Review Activities

Proposals: Provided mail reviews of 116 grant proposals for: National Science Foundation; U.S. Dept. of Energy; National Oceanic and Atmospheric Administration; International Science Foundation; Natural Environment Research Council (United Kingdom); the American Chemical Society / Petroleum Research Fund; Washington Sea Grant Program; U.S. Civilian Research & Development Foundation; Research Council of Norway; Austrian Science Fund.

Manuscripts: Reviewed 100 manuscripts for 37 professional journals or series.

Major Extramural Research Grants (as sole Principal Investigator unless otherwise noted)

1983	Cottrell Research Grant, Research Corporation: \$3,500.
1984	National Science Foundation (EAR-8316739): \$24,502.
1985	Petroleum Research Fund, American Chemical Society (#16914-GB2): \$15,000.
1987	National Science Foundation (OCE-8710717): \$60,294.
1987	National Science Foundation (EAR-8617682): co-PI with T.E. LaTour; \$94,400.
1988	National Science Foundation (OCE-8812316): \$25,000.
1989	National Science Foundation (OCE-8906261): \$26,034.
1991	National Science Foundation (EAR-9103530): \$60,125.
1991	Texas A&M Research Foundation (JOI/USSSP): \$22,938.
1992	National Science Foundation (OCE-9114832): \$70,511.
1992	Texas A&M Research Foundation (JOI/USSSP): \$11,988.
1993	Texas A&M Research Foundation (JOI/USSSP): \$18,600.
1993	Texas A&M Research Foundation (JOI/USSSP): \$14,046.
1994	Education, Research, and Development Association of Georgia Universities (ERDA-DOE; DE-AC09-89SR18035): co-PI with T.E. LaTour; \$46,284.
1994	National Science Foundation (DUE-9452375): co-PI with S.E. Rose; \$27,066.
1994	National Science Foundation (EAR-9405716): co-PI with A.M. Ghazi; \$167,943.
1995	National Science Foundation (EAR-950623): co-PI with A.M. Ghazi; \$20,149.
1996	Texas A&M Research Foundation (JOI/USSSP): \$37,210.
1997	Texas A&M Research Foundation (JOI/USSSP): \$21,680.
2000	Texas A&M Research Foundation (JOI/USSSP): \$52,488.
2001	Texas A&M Research Foundation (JOI/USSSP): \$15,536.
2004	National Science Foundation (OCE-0425591): \$50,404.
2004	National Science Foundation (MRI-0421141): co-PI with M. Rajeswari, V. Smolyaninova, D. Schaefer, and S. Lev; \$267,196.
2009	National Science Foundation (DUE-0934751): PI, with co-PIs K. Denniston, D. Thomas, J. Wolfson and T. Kenreich; \$900,000.
2009	NASA (NNX09AT03G): co-PI with K. Denniston and R. Miranda (became PI on KD's departure); \$1,000,000.
2010	NASA (NNX10AJ68G): co-PI with K. Denniston and R. Miranda (became PI on KD's departure); \$1,000,000.
2010	National Science Foundation (CHE-0963263): PI, with co-PIs S. Lev, J. Snodgrass, R. Casey, and D. Ownby, and project manager J.Nye; \$1,395,000.

Publications in Refereed Journals

1. Vanko, David A. and Batiza, Rodey, 1982. Gabbroic rocks from the Mathematician Ridge failed rift. Nature, v. 300, p. 742-744.
2. Vanko, David A. and Bishop, Finley C., 1982. Occurrence and origin of marialitic scapolite in the Humboldt lopolith, N.W. Nevada. Contributions to Mineralogy and Petrology, v. 81, p. 877-889.
3. Batiza, Rodey and Vanko, David, 1983. Volcanic development of small oceanic central volcanoes on the flanks of the East Pacific Rise inferred from narrow beam echo sounder surveys. Marine Geology, v. 54, p. 53-90.
4. Batiza, Rodey, Fornari, Daniel, Vanko, David, and Lonsdale, Peter, 1984. Craters, calderas and hyaloclastites: common features of young Pacific seamounts. Journal of Geophysical Research, v. 89, p. 8371-8390.
5. Batiza, Rodey and Vanko, David, 1984. Petrology of young Pacific seamounts. Journal of Geophysical Research, v. 89, p. 11235-11260.
6. Batiza, Rodey and Vanko, David A., 1985. Petrologic evolution of large failed rifts in the Eastern Pacific: Petrology of volcanic and plutonic rocks from the Mathematician Ridge area and the Guadalupe Trough. Journal of Petrology, v. 26, p. 564-602.
7. Vanko, David A., 1986. High-chlorine amphiboles from oceanic rocks: product of highly-saline hydrothermal fluids? American Mineralogist, v. 71, 51-59.
8. Stakes, Debra and Vanko, David A., 1986. Multistage hydrothermal alteration of gabbroic rocks from the failed Mathematician Ridge. Earth and Planetary Science Letters, v. 79, p. 75-92.
9. Vanko, David A., 1988. Temperature, pressure, and composition of hydrothermal fluids, with their bearing on the magnitude of tectonic uplift at mid-ocean ridges, inferred from fluid inclusions in oceanic layer 3 rocks. Journal of Geophysical Research, v. 93, p. 4595-4611.
10. Castillo, P., Batiza, R., Vanko, D., Malavassi, E., Barquero, J., and Fernandez, E., 1988. Anomalously young volcanoes on old hot spot traces: I. Geology and petrology of Cocos Island. Geological Society of America Bulletin, v. 100, 1400-1414.
11. Vanko, D. A., Bodnar, R. J., and Sterner, S. M., 1988. Synthetic fluid inclusions. VIII. Vapor-saturated halite solubility in part of the system NaCl-CaCl₂-H₂O, with application to fluid inclusions from oceanic hydrothermal systems. Geochimica et Cosmochimica Acta, v. 52, p. 2451-2456.
12. Vanko, D. A., and C. L. Knight, 1989. Analysis of fluid inclusions in oceanic rocks by laser Raman microprobe techniques (extended abstract). In P. E. Russell, Ed., Microbeam Analysis- 1989, p. 583-585.
13. Vanko, David A., and Stakes, Debra S., 1991. Fluids in oceanic layer 3: evidence from veined rocks, Hole 735B, Southwest Indian Ridge. In Von Herzen, R. P., and Robinson, P. T., et al., 1991, Proc. ODP, Sci. Results, 118: College Station, TX (Ocean Drilling Program), p. 181-215.
14. Vanko, David A., Milby, Barbara J., and Heinzquith, Sean W., 1991. Massive sulfides with fluid-inclusion-bearing quartz from a young East Pacific Rise seamount. Canadian Mineralogist, v. 29, p. 453-460.

15. Vanko, David A., Griffith, Jonathan D., and Erickson, Cheryl L., 1992. Calcium-rich brines and other hydrothermal fluids in fluid inclusions from plutonic rocks, Oceanographer Transform, Mid-Atlantic Ridge. Geochimica et Cosmochimica Acta, v. 56, p. 35-47.
16. Fritz, William J., and Vanko, David A., 1992. Geochemistry and origin of a black mudstone in a volcanoclastic environment, Ordovician Lower Rhyolitic Tuff Formation, North Wales, U.K. Sedimentology, v. 39, p. 663-674.
17. Ghazi, A.M., Vanko, D.A., Roedder, E., and Seeley, R.C., 1993. Determination of rare earth elements in fluid inclusions by inductively coupled plasma mass spectrometry (ICPMS). Geochimica et Cosmochimica Acta, v. 57, p. 4513-4516.
18. Vanko, David A., Sutton, Stephen R., Rivers, Mark L., and Bodnar, Robert J., 1993. Major element ratios in synthetic fluid inclusions by synchrotron x-ray fluorescence microprobe. Chemical Geology, v. 109, p. 125-134.
19. Cline, Jean S., and Vanko, David A., 1995. Magmatically generated saline brines related to molybdenum at Questa, New Mexico, USA. In, Thompson, J.F.H., ed., Magmas, Fluids and Ore Deposits, Mineralogical Association of Canada Short Course Series, v. 23, p. 153-174.
20. Kelley, Deborah S., Vanko, David A., and Gu, Chifeng, 1995. Fluid evolution in oceanic crustal layer 2: Fluid inclusion evidence from the sheeted dike complex, Hole 504B, Costa Rica Rift. In Erzinger, J., Becker, K., Dick, H.J.B., and Stokking, L.B. (Eds.), 1995. Proc. ODP, Sci. Results, 137/140: College Station, TX (Ocean Drilling Program), p. 191-198.
21. Laverne, C., Vanko, D. A., Tartarotti, P., and Alt, J.C., 1995. Chemistry and geothermometry of secondary minerals from the deep sheeted dike complex, Hole 504B. In Erzinger, J., Becker, K., Dick, H.J.B., and Stokking, L.B. (Eds.), 1995. Proc. ODP, Sci. Results, 137/140: College Station, TX (Ocean Drilling Program), p. 167-189.
22. Vanko, David A., Laverne, Christine, Tartarotti, Paola, and Alt, Jeffrey C., 1996. Chemistry and origin of secondary minerals from the deep sheeted dikes cored during Leg 148 (Hole 504B). In Alt, J.C., Kinoshita, H., Stokking, L.B., and Michael, P.J. (Eds.), 1996. Proc. ODP, Sci. Results, 148: College Station, TX (Ocean Drilling Program), 71-86.
23. Gu, Chifeng and Vanko, David A., 1996. Nature of fluid inclusions in samples of the deep sheeted dikes cored during Leg 148 (Hole 504B). In Alt, J.C., Kinoshita, H., Stokking, L.B., and Michael, P.J. (Eds.), 1996. Proc. ODP, Sci. Results, 148: College Station, TX (Ocean Drilling Program), 87-95.
24. Tartarotti, Paola, Vanko, David A., Harper, Gregory D., and Dilek, Yildirim, 1996. Crack-seal veins in upper Layer 2 in Hole 896A. In Alt, J.C., Kinoshita, H., Stokking, L.B., and Michael, P.J. (Eds.), 1996. Proc. ODP, Sci. Results, 148: College Station, TX (Ocean Drilling Program), 281-288.
25. Alt, Jeffrey C., Laverne, Christine, Vanko, David A., Tartarotti, Paola, Teagle, Damon A.H., Bach, Wolfgang, Zuleger, Evelyn, Erzinger, Jörg, Honnorez, José, Pezard, Philippe A., Becker, Keir, Salisbury, Matthew H., and Wilkens, Roy H., 1996. Hydrothermal alteration of a section of upper oceanic crust in the eastern equatorial Pacific: a synthesis of results from Site 504B (DSDP legs 69, 70, and 83, and ODP legs 111, 137, 140, and 148). In Alt, J.C., Kinoshita, H., Stokking, L.B., and Michael, P.J. (Eds.), 1996. Proc. ODP, Sci. Results, 148: College Station, TX (Ocean Drilling Program), 417-434.

26. Alt, Jeffrey C., Teagle, Damon A.H., Laverne, Christine, Vanko, David A., Bach, Wolfgang, Honnorez, José, Becker, Keir, Ayadi, Miriem, and Pezard, Philippe A., 1996. Ridge flank alteration of upper ocean crust in the eastern Pacific: a synthesis of results for volcanic rocks of holes 504B and 896A. In Alt, J.C., Kinoshita, H., Stokking, L.B., and Michael, P.J. (Eds.), 1996. Proc. ODP, Sci. Results, 148: College Station, TX (Ocean Drilling Program), 435-450.
27. Ghazi, A.M., McCandless, T., Vanko, D.A., and Ruiz, J., 1996. New quantitative approach in trace element analysis of single fluid inclusions: applications of laser ablation inductively coupled plasma mass spectrometry (LA-ICP-MS). Journal of Analytical Atomic Spectrometry, v. 11, p. 667-674.
28. Vanko, David A., and Laverne, Christine, 1998. Hydrothermal anorthitization of plagioclase within the magmatic/hydrothermal transition in mid-ocean ridges: examples from deep sheeted dikes (Hole 504B, Costa Rica Rift) and a sheeted dike root zone (Oman Ophiolite). Earth and Planetary Science Letters, v. 162, p. 27-43.
29. Vanko, David A., and Mavrogenes, John A., 1998. Synchrotron-source X-ray Fluorescence Microprobe: Analysis of Fluid Inclusions. In McKibben, M.A., and Shanks, W.C., (Eds.), Applications of Microanalytical Techniques to Understanding Mineralizing Processes. Reviews in Economic Geology, v. 7: (Society of Economic Geologists), p. 251-263.
30. Hunter, A.G., and Leg 168 Shipboard Scientific Party, 1998. Petrological investigations of low temperature hydrothermal alteration of the upper crust, Juan de Fuca Ridge, ODP Leg 168. In Mills, R.A., and Harrison, K. (Eds.), Modern Ocean Floor Processes and the Geological Record. Geological Society of London Special Publications, v. 148, p. 99-125.
31. Porter, S., Vanko, D.A., and Ghazi, A.M., 2000. Major and trace element compositions of secondary clays in basalts altered at low temperature, eastern flank of the Juan de Fuca Ridge. Proc. ODP, Sci. Results, 168: College Station, TX (Ocean Drilling Program), 149-157.
32. Yatabe, A., Vanko, D.A., and Ghazi, A.M., 2000. Petrography and chemical compositions of secondary calcite and aragonite from basalts altered at low temperature, eastern flank of the Juan de Fuca Ridge. Proc. ODP, Sci. Results, 168: College Station, TX (Ocean Drilling Program), 137-148.
33. Marescotti, P., Vanko, D.A., and Cabella, R., 2000. From oxidizing to reducing alteration: mineralogical variations in pillow basalts from the east flank of the Juan de Fuca Ridge. Proc. ODP, Sci. Results, 168: College Station, TX (Ocean Drilling Program), 119-136.
34. Vanko, D.A., Bonnin-Mosbah, M., Philippot, P., Roedder, E., and Sutton, S.R., 2001. Fluid inclusions in quartz from oceanic hydrothermal specimens and the Bingham, Utah, porphyry-Cu deposit: a study with PIXE and SXRF. Chemical Geology, v. 173, p. 227-238.
35. Briggs, G.A., Haynes, J.T., Elliott, W.C., and Vanko, D.A., 2001. A study of plagioclase-hosted melt inclusions in the Ordovician Deicke and Millbrig potassium bentonites, Southern Appalachian Basin. Southeastern Geology, v. 40(4), p. 273-284.
36. Roberts, S., Bach, W., Binns, R.A., Vanko, D.A., Yeats, C.J., Teagle, D.A.H., Blacklock, K., Blusztajn, J.S., Boyce, A.J., Cooper, M.J., Holland, N., and McDonald, B., 2003. Contrasting evolution of hydrothermal fluids in the PACMANUS system, Manus Basin: The Sr and S isotope evidence. Geology, v. 31, p. 805-808.

37. Bach, W., Roberts, S.R., Vanko, D.A., Binns, R.A., Yeats, C.J., Craddock, P., and Humphris, S.E., 2003. Controls of fluid chemistry and complexation on rare earth element contents of anhydrite from the PACMANUS seafloor hydrothermal system, Manus Basin, Papua New Guinea. Mineralium Deposita, v. 38(8), p. 916-935.
38. Paulick, H., Vanko, D.A., and Yeats, C.J., 2004. Drill core-based facies reconstruction of a deep-marine, felsic volcano hosting an active hydrothermal system (Pual Ridge, Papua New Guinea, ODP Leg 193). Journal of Volcanology and Geothermal Research, v. 130, p. 31-50.
39. Coggon, R.M., Teagle, D.A.H., Cooper, M.J., and Vanko, D.A., 2004. Linking basement carbonate vein compositions to porewater geochemistry across the eastern flank of the Juan de Fuca Ridge, ODP Leg 168. Earth and Planetary Science Letters, v. 219, p. 111-128.
40. Vanko, D.A., Bach, W., Roberts, S., Yeats, C.J., Scott, S.D., 2004. Fluid inclusion evidence for subsurface phase separation and variable fluid mixing regimes beneath the deep-sea PACMANUS hydrothermal field, Manus Basin back arc rift, Papua New Guinea. Journal of Geophysical Research, v. 109, B03201, doi:10.1029/2003JB002579 [05 March 2004; 14 pages].
41. Vanko, D.A., and Bach, W., 2005. Heating and freezing experiments on aqueous fluid inclusions in anhydrite: recognition and effects of stretching and the low-temperature formation of gypsum. Chemical Geology, v. 223, p. 35-45.
42. Vanko, D.A., 2009. A petrographic and fluid inclusion assessment of hydrothermal alteration of some impactites and crystalline rocks in the Chesapeake Bay impact structure, ICDP-USGS Eyreville-B core. In Gohn, G.S., Koeberl, C., Miller, K.G., and Reimold, W.U., eds., The ICDP-USGS Deep Drilling Project in the Chesapeake Bay Impact Structure: Results from the Eyreville Coreholes. Geological Society of America Special Paper 458, p. 543-557, doi:10.1130/2009.2458(23).

Recent Reports and Other Publications

37. Tivey, Maurice, Bach, W., Seewald, J., Tivey, Margaret, Vanko, D., and the Shipboard Science, JASON-2, and ABE Technical Teams, 2006. Hydrothermal systems in the eastern Manus Basin: Fluid chemistry and magnetic structure as guides to seafloor processes. Manus 2006 Cruise Report, R/V Melville, Magellan-06. Woods Hole Oceanographic Institution, Woods Hole, Massachusetts, USA.
38. Teagle, D.A.H., Wilson, D.S., Acton, G.D., and Vanko, D.A. (Eds.), 2007. Proceedings of the ODP, Scientific Results, 206: College Station, TX (Ocean Drilling Program). doi:10.2973/odp.proc.sr.206.2007

Recent Abstracts

94. Tivey, M., Bach, W., Tivey, M., Seewald, J., Craddock, P., Rouxel, O., Yoerger, D., Yeats, C., McConachy, T., Quigley, M., Vanko D., and the Scientific Party of MGLN06, 2006. Investigating the influence of magmatic volatile input and seawater entrainment on vent deposit morphology and composition in Manus Basin (back-arc) hydrothermal systems. Trans. Amer. Geophys. Union, v. 87(52), Fall Meet. Suppl., Abstract B34A-01.

95. Vanko, D.A. and Benbow, D.J., 2007. Hydrothermal alteration within deep crater fill material, Chesapeake Bay Impact Structure: A mineral and fluid inclusion study. Geol. Soc. Amer. Abstr. w. Prog., 39(6), p. 452.
96. Vanko, D.A. and Benbow, D.J., 2008. Fluid inclusions in core samples from the crater, Chesapeake Bay Impact Structure, and their implications for post-impact hydrothermal circulation. Ninth Biennial Pan-American Conference on Research on Fluid Inclusions (PACROFI IX), Program and Abstracts, no.15.
97. Cotter, M.J., and Vanko, D.A., 2008. Fluid inclusions in massive anhydrite sampled with ROV Jason II from active deep sea hydrothermal fields in the Manus (back-arc) Basin. Ninth Biennial Pan-American Conference on Research on Fluid Inclusions (PACROFI IX), Program and Abstracts, no. 60.
98. Vanko, D.A., and Thomas, T., 2010. Towson University Robert Noyce Teacher Scholarship Program. National Science Foundation Robert Noyce Teacher Scholarship Program Conference, Conference Program, A55-56.
99. Vanko, D.A. and Thomas, T., 2011. Towson University Robert Noyce Teacher Scholarship Program – Year Two. National Science Foundation Robert Noyce Teacher Scholarship Program Conference, Conference Program, A46.