

VITA

Richard J. (Rick) Diecchio

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married, 3 children

Certified Professional Geologist no. 385, Commonwealth of Virginia

ACADEMIC EXPERIENCE

George Mason University (9/80 to present)

Professor of Geology (5/98-present); Associate Prof. (5/86-5/98); Assistant Prof. (9/80-5/86)

Associate Dean for Undergraduate Programs, College of Science (5/06-present)

Chair, Department of Geography & Earth Science (7/95-6/01)

Interim Director, Environmental & Policy, 7/00-6/01

Director, Program in Earth Systems Science (1/92-6/01)

Director of Geology Program (9/90-6/01)

Member of Environmental Science & Public Policy faculty (1990-present)

Courses offered: Physical Geology, Historical Geology, Geology of Virginia, Environmental Geology, Sedimentary Geology, Geomorphology, Oceanography, Sedimentary Facies Analysis, Stratigraphy, Field Mapping Techniques, Geological Field Techniques, Geological Development of North America, Geology of Mineral and Energy Resources, Geologic Map Interpretation, Earth Science Policy Seminar, Rivers and Drainage Basins.

East Carolina University (summers 2001, 2004, 2005, 2006) – Instructor for Field Camp

North Carolina State University (summers 2002, 2003) – Instructor for Field Camp

Emory University (1988-1989) - Adjunct Associate Professor of Geology

University of North Carolina (8/76 to 5/80)

Instructor: Sedimentary Rocks, lecture and lab (1980)

Lab instructor: Physical Geology, Stratigraphy, Geomorphology, Geology of Energy Resources

Physical Geology Lab Coordinator (1978-79)

Teaching Fellowship (spring, 1979)

Duke University (summer 1973) - Lab instructor: Physical Geology

EDUCATION

Rensselaer Polytechnic Institute, Troy, NY (9/66 to 6/70); B.S. (Geology), June 1970

Duke University, Durham, NC (9/71 to 12/73); M.S. (Geology), May 1974

Thesis: Lower and Middle Silurian ichnofacies and their paleoenvironmental significance, Central Appalachian Basin of the Virginias.

University of North Carolina, Chapel Hill, NC (8/76 to 8/80); Ph.D. (Geology), August 1980

Dissertation: Post-Martinsburg Ordovician Stratigraphy, Central Appalachian Basin.

INDUSTRIAL EXPERIENCE

Dunn Geoscience Corp., Latham, NY (summers of 1970, 1972)

Field Geologist. Duties included geochemical sampling and regional stratigraphic reconnaissance for metal sulphide exploration.

U.S. Postal Service, Yonkers, NY (9/70 to 8/71)

Letter carrier, clerk, and parcel post driver.

Stone & Webster Engineering Corp., Boston, MA and New York, NY (2/74 to 8/76)

Geological Engineer. Duties included field investigations and geological studies pertinent to the siting of nuclear power plants, and the preparation of the geological portions of environmental and safety analysis reports for federal and state agencies.

West Virginia Geological and Economic Survey, Morgantown, WV (1982-present)

Cooperating Geologist. Geologic mapping; regional analysis of stratigraphic relationships and hydrocarbon production characteristics of the Oriskany and Tuscarora/"Clinton"/Medina sands in the Appalachian Basin.

RESEARCH INTERESTS

Regional Geology

Appalachian Paleozoic stratigraphy and tectonics

Landscape evolution

GRANTS

West Virginia Geological and Economic Survey (1973) - Silurian stratigraphy and trace fossils in Virginia and West Virginia.

Society of Sigma Xi (1977) - Investigation of the thermal spring area of Virginia.

American Association of Petroleum Geologists (1978) - The effects of thermal springs on the thermal maturity of strata in Virginia.

Columbia Gas Transmission Corp. (1978-79) - The Stratigraphy of Richmond and Albion age strata in Virginia and West Virginia.

Virginia Division of Mineral Resources (1979) - The stratigraphy of Richmond age strata in Virginia.

West Virginia Geological and Economic Survey (1979) - The stratigraphy of Richmond age strata in West Virginia.

George Mason University (1980-82) - The resource potential of the Tuscarora Sandstone.

National Science Foundation (1982) - Group travel for U.S. participants in IV International Symposium on the Ordovician System, Oslo, Norway, August 1982. (\$6,000)

George Mason University (1984) - summer salary stipend

Columbia Gas Transmission Corp. (1984) - The Tuscarora Sandstone in the subsurface of West Virginia. (\$3,000)

George Mason University, International Programs (1985) - seed grant to establish a geological field program in Puerto Rico.

American Chemical Society, Petroleum Research Fund (1987-89) - Sedimentation in the Central Appalachians during the Late Ordovician/Early Silurian glacial event. (\$18,000)

George Mason University (1988) - Course development grant to develop a workbook for Geology 101.

George Mason University (1988) - summer salary stipend

National Science Foundation (1989) - Acquisition of Cathodo-luminescence capabilities at George Mason University. (\$8,000)

George Mason University (1997-98, 1998-99) - graduate research assistantship

Virginia Department of Education (2005-06) – Co-PI, Donna Sterling. Virginia Earth Science Collaborative, (George Mason Subcontract: \$106,013. Total budget: \$920,848)

American Chemical Society, Petroleum Research Fund (submitted and pending) – Distal Effects of the Chesapeake Bay Meteorite Impact (requested \$79,226)

PUBLICATIONS

Papers, Reports, Guidebooks, Maps (* = peer reviewed)

- * Houghton, R.L., Thomas, J.E., Diecchio, R.J., and Tagliacozzo, A., 1975, Radiometric ages of basalts from DSDP Leg 43: sites 382 and 385 (New England Seamounts), 384 (J-Anomaly), 386 and 387 (Central and Western Bermuda Rise): *in* Tucholke, B.E., Vogt, P.R., et.al., eds., Initial Reports of the Deep Sea Drilling Project, v. 43: Washington (U.S. Government Printing Office), p. 739-753.
- * Diecchio, R.J., 1980, Method and inexpensive device for direct field re-orientation of originally horizontal linear structures: *Jour. Sedimentary Petrology*, v. 50, p. 647-649.
- Diecchio, R.J., 1982a, Compilation of regional stratigraphic and production trends, Oriskany Sandstone/Appalachian basin: W. Va. Geol. and Econ. Survey, Open File Report, 48 pp.
- Diecchio, R.J., 1982b, Tuscarora Sandstone-stratigraphic summary and production trends: W. Va., Geol. and Econ. Survey, Open File Report, 12 pp.
- Diecchio, R.J., 1982c, Compilation of regional stratigraphy and production trends, "Clinton"-Medina Sandstone, Appalachian basin: W. Va. Geol. and Econ. Survey, Open File Report, 32 pp.
- Diecchio, R.J., Jones, S.E., and Densson, J.M., 1984, Oriskany Sandstone - regional stratigraphic relationships and production trends: W. Va. Geol. and Econ. Survey, Map WV-17, 8 plates.
- Dennen, K.O., and Diecchio, R.J., 1984, The Falling Spring, Alleghany County, Virginia: *in* Stratigraphy and Structure in the Thermal Springs Area of the Western Anticlines: Va. Geol. Field Conf. Guidebook, Oct. 13-14, 1984, p. 17-22.
- * Diecchio, R.J., 1985a, Regional controls of gas accumulation in Oriskany Sandstone, Central Appalachian basin: *Amer. Assoc. Petroleum Geologists Bull.*, v. 69, p. 722-732.
- * Diecchio, R.J., 1985b, Post-Martinsburg Ordovician stratigraphy of Virginia and West Virginia: Va. Div. Min. Res., Publication 57, 77 p.
- Diecchio, R.J., 1985c, The Taconian clastic sequence of Northern Virginia and West Virginia: *Soc. Econ. Paleontologists and Mineralogists, Eastern Section, Field Trip Guidebook*, Oct. 11-13, 1985, 62 p.
- * Fichter, L.S., and Diecchio, R.J., 1986a, Stratigraphic model for timing the opening of the Proto-Atlantic Ocean in Northern Virginia: *Geology*, v. 14, p. 307-309.
- * Diecchio, R.J., 1986a, Taconian clastic sequence and general geology in the vicinity of the Allegheny Front in Pendleton County, West Virginia: *in* Neathery, T.N., ed., Decade of North American Geology, Centennial Field Guide Volume 6, Southeastern Section of the Geological Society of America, p. 85-90.
- * Fichter, L.S., and Diecchio, R.J., 1986b, The Taconic sequence in the northern Shenandoah Valley, Virginia: *in* Neathery, T.N., ed., Decade of North American Geology, Centennial Field Guide Volume 6, Southeastern Section of the Geological Society of America, p. 73-78.
- Diecchio, R.J., 1986b, Upper Ordovician and Silurian stratigraphy of the Virginia and West Virginia Valley and Ridge - sedimentary and structural effects of the Taconic Orogeny: *in* Textoris, D.A. (ed.), SEPM Field Guidebooks, Southeastern United States, Third Annual Midyear Meeting, 1986, Raleigh, NC, p. 217-252.

Dennison, J.M., Anderson, E.J., Beuthin, J.D., Cotter, E., Diecchio, R.J., Goodwin, P.W., McGhee, G.R., Jr., Miller, J.M.G., Newton, C.R., Read, J.F., Rossbach, T.J., VanTassell, J., Warne, A.G., and Whisonant, R.C., 1989, Paleozoic sea-level changes in the Appalachian Basin: 28th International Geological Congress, Field Trip Guidebook T354, American Geophysical Union, Washington, D.C., 56 p.

* Dennen, K.O., Diecchio, R.J., and Stephenson, M.A., 1990, The geology of the Falling Spring travertine deposit, Alleghany County, Virginia: *in* Herman, J.S., and Hubbard, D.A., Jr., eds., *Travertine-marl: stream deposits in Virginia*: Virginia Division of Mineral Resources Publication 101, p. 79-91.

* Diecchio, R.J., 1991, Taconian sedimentary basins of the Appalachians: *in* C.R. Barnes and S.H. Williams, eds., *Advances in Ordovician Geology*, Geological Survey of Canada, Paper 90-9, p. 225-234.

Fichter, L.S., and Diecchio, R.J., 1993, Evidence for the progressive closure of the Proto-Atlantic Ocean in the Valley and Ridge Province of northern Virginia and eastern West Virginia: National Association of Geology Teachers, Southeast Section Meeting Field Trip Guidebook, Harrisonburg, VA, p. 27-49.

* Diecchio, R.J., 1993, Stratigraphic interpretation of the Ordovician of the Appalachian basin and implications for Taconian flexural modeling: *Tectonics*, v. 12, p. 1410-1419.

* Diecchio, R.J., and Brodersen, B.T., 1994, Recognition of regional (eustatic?) and local (tectonic?) relative sea-level events in outcrop and gamma-ray logs, Ordovician, West Virginia: *in* Dennison, J.M. and Ettensohn, F.R., eds., *Tectonic and Eustatic Controls on Sedimentary Cycles*, SEPM Concepts in Sedimentology and Paleontology, #4, p. 171-180.

* Diecchio, R.J., 1995, Isostasy for geoscience labs: *Journal of Geological Education*, v. 43, p. 35-42.

Diecchio, R.J., 1995, Sea-level changes and correlation of Ordovician-Silurian boundary sections in Appalachian basin and Anticosti Island based on cumulative aggradation plots: *in* Cooper, J.D., Droser, M.R., and Finney, S.C., eds., *Ordovician Odyssey: Short Papers for the Seventh International Symposium on the Ordovician System*, Las Vegas, NV, June 1995: Pacific Section SEPM, Book no. 77, p. 337-341.

Diecchio, R.J., 1995, Misuse of Fischer plots as sea-level curves...Comment: *Geology* v. 23, p. 1049.

Diecchio, R.J., and Dennison, J.M., 1996, Silurian stratigraphy of central and northern Virginia and adjacent West Virginia: *in* Broadhead, T.W., editor, *Sedimentary environments of Silurian Taconia - fieldtrips to the Appalachians and southern craton of eastern North America*: University of Tennessee, Department of Geological Sciences, *Studies in Geology* 26, p. 107-127.

* Diecchio, R.J., 1998, A modular earth science curriculum: *Journal of Geoscience Education*, v. 46, p. 337-340.

McDowell, R.R., Matchen, D.L., Avary, K.L., Diecchio, R.J., Pierson, D.R., and Wilkes, C.S., 1999, Preliminary bedrock geologic map of the Moatstown Quadrangle, West Virginia: West Virginia Geological and Economic Survey Open File Publication OF-9906.

McDowell, R.R., Matchen, D.L., Avary, K.L., Diecchio, R.J., Dodge, N., and Hinkle, B., 2000, Preliminary bedrock geologic map of the Brandywine Quadrangle, West Virginia: West Virginia Geological and Economic Survey Open File Publication OF-0002.

McDowell, R.R., Matchen, D.L., Avary, K.L., Diecchio, R.J., McCoy, H. and Rutledge, F., 2001, Preliminary bedrock geologic map of the Snowy Mountain Quadrangle, West Virginia: West Virginia Geological and Economic Survey Open File Publication OF-0101.

- McDowell, R.R., Matchen, D.L., Avary, K.L., Diecchio, R.J., McCoy, H. and Rutledge, F., 2001, Preliminary bedrock geologic map of the Spruce Knob Quadrangle, West Virginia: West Virginia Geological and Economic Survey Open File Publication OF-0102.
- McDowell, R., Avary, K.L., Matchen, D., Diecchio, R., Cole, S, and Gross, A., 2002, Preliminary Bedrock Geologic Map of the Circleville Quadrangle: West Virginia Geological Survey Publication OF-0201.
- McDowell, R., Avary, K.L., Matchen, D., Diecchio, R., Cole, S, and Gross, A., 2002, Preliminary Bedrock Geologic Map of the Thornwood Quadrangle: West Virginia Geological Survey Publication OF-0202.
- McDowell, R., Avary, K., Matchen, D., Diecchio, R., Hicks, K. and Howton, C., 2003, Preliminary Bedrock Geologic Map of the Franklin Quadrangle, West Virginia Geological and Economic Survey Open File Publication OF-0303.
- Diecchio, R.J., 2003, Relationships between geologic features in Highland County and the Chesapeake Bay impact structure: *in* Tso, J.L., McDowell, R.R., Avary, K.L., Matchen, D.L., and Wilkes, G.P., Middle Eocene Igneous Rocks in the Valley and Ridge of Virginia and West Virginia: Field Guidebook for 33rd Annual Virginia Field Conference, p. 29-31.
- * McBride, R.A., Moslow, T.F., Roberts, H.H., and Diecchio, R.J., 2004, Late Quaternary geology of the northeastern Gulf of Mexico shelf: sedimentology, depositional history, and ancient analogs of a major shelf sand sheet of the modern transgressive systems tract: *in* Anderson, J.B. and Fillon, R.H., eds., *Late Quaternary Stratigraphic Evolution of the Northeastern Gulf of Mexico Margin*: SEPM Special Publication no. 79, p. 55-83.
- * Diecchio, R., and Gottfried, R., 2004, Regional tectonic history of northern Virginia: *in* Southworth, S., and Burton, W., eds., *Geology of the National Capitol Region – Field Trip Guidebook*: U.S. Geological Survey Circular 1264, p. 1-14.
- McDowell, R. R., Avary, K. L., Britton, J. Q., Matchen, D. L., Diecchio, R. J., Hicks, K. E., Walkup, L. C., Burns, M. S., and Waggy, P. J., 2004, Preliminary Bedrock Geologic Map of the Fort Seybert Quadrangle, West Virginia Geological and Economic Survey Open File Publication, OF-0408.

Abstracts

- Diecchio, R.J., 1975, Paleoenvironmental reconstruction of Lower and Middle Silurian clastics, inferred from trace fossils, Central Appalachian basin: *Amer. Assoc. Petroleum Geologists and Soc. Econ. Paleontologists and Mineralogists, Annual Meeting Abstracts*, v. 1, p. 20.
- Diecchio, R.J., 1980, Significance of carbonaceous beds in the Silurian Tuscarora and "Keefer" Sandstones in the Valley and Ridge of the Virginias; *Geol. Soc. America Northeast Section Meeting Abstracts*, v. 12, no. 2, p. 30.
- Diecchio, R.J., 1980, Stratigraphic and petrologic evidence for partial closure of the Proto-Atlantic during the Taconic Orogeny: *Geol. Soc. America National Meeting Abstracts*, v. 12, no. 7, p.413.
- Diecchio, R.J., 1981, Eustatic versus isostatic control of Late Ordovician clastic sedimentation in the Central Appalachians: *Geol. Soc. America National Meeting Abstracts*, v. 13, no. 7, p. 440.
- Diecchio, R.J., Jones, S.E., and Dennison, J.M., 1982, Oriskany Sandstone - regional stratigraphic relationships and production characteristics: *in* Thirteenth Annual Appalachian Petroleum Geology Symposium, W. Va. Geol. Econ. Survey, Circular 26, p. 19-20.
- Diecchio, R.J., 1982, The Taconic "Unconformity" in northern Virginia: *Geol. Soc. America Northeast --Southeast Section Meeting Abstracts*, v. 14, nos. 1 and 2, p. 15.
- Diecchio, R.J., 1982, Isostatic, eustatic and tectonic implications of Ashgill stratigraphy, Central Appalachians, U.S.A.: *in* Bruton, D.L. and Williams, S.H., eds., *Abstracts for Meetings, IV Int. Symp. Ordovician System; Paleont. Contr. Univ. Oslo*, no. 280, p. 15.

- Thompson, A.M., and Diecchio, R.J., 1982, Taconian clastic facies and clastic wedges in the Appalachian region, U.S.A.: *in* Bruton, D.L. and Williams, S.H., eds., Abstracts for Meetings, IV Int. Symp. Ordovician System; Paleont. Contr. Univ. Oslo, no. 280, p. 54.
- Diecchio, R.J., 1982, Stratigraphic control of Oriskany production: Amer. Assoc. Petroleum Geologists Eastern Section Meeting Abstracts; Amer. Assoc. Petroleum Geologists Bull., v. 66, p. 1167.
- Diecchio, R.J., and Hall, J.C., 1983, Upper Ordovician to Middle Silurian trace fossil assemblages from Virginia and West Virginia: Geol. Soc. America National Meeting Abstracts, v. 15, no. 6, p. 558.
- Diecchio, R.J., 1983, Late Ordovician sedimentary tectonics of the Valley and Ridge in Virginia: Va. Jour. Science, v. 34, p. 170.
- Gray, K.J., and Diecchio, R.J., 1983, Observations of the Eocene dike swarm, Highland County, Virginia: Va. Jour. Science, v. 34, p. 171.
- Fichter, L.S., Diecchio, R.J., 1984, Stratigraphic model for the timing of the opening of the Proto-Atlantic Ocean in Northern Virginia: Geol. Soc. America Southeast/North-Central Section Meeting Abstracts, v.16, no.3, p.138.
- Mose, D.G., and Diecchio, R.J., 1984, Preparation of video-tape regional geology field trips to the western Appalachians: Geol. Soc. America Southeast/North-Central Section Meeting Abstracts, v. 16, no. 3, p. 182.
- Dennen, K.O., and Diecchio, R.J., 1984, Chemical observations of Falling Spring, Allegheny County, Virginia: Va. Jour. Science, v. 35, p. 119.
- Diecchio, R.J., Iverson, B.M., and Hall, J.C., 1985, Conodont age determination of the lower portion of the Taconian clastic sequence at the Allegheny Front, Pendleton County, West Virginia: Geol. Soc. America Southeast Section Meeting Abstracts, v. 17, no. 2, p. 88.
- Mose, D.G., Diecchio, R.J., DiGuseppi, W.H., Nagel, M.S., 1985, Confirmation of a latest Precambrian (@ 600 m.y.) age for the Catocton Formation in Virginia: Geol. Soc. America Southeast Section Meeting Abstracts, v. 17, no. 2, p. 126.
- Diecchio, R.J., 1985, Synclinoria of the Central Appalachians - clues to timing of deformation: Geol. Soc. America, National Meeting Abstracts, v. 17, p. 563.
- Diecchio, R.J., 1986, Syn-depositional deformation of Appalachian basin strata, with special emphasis on the Late Ordovician: *in* Seventeenth Annual Appalachian Petroleum Geology Symposium, W. Va. Geol. and Econ. Survey, Circular No. C-38, p. 20-21.
- Diecchio, R.J., 1988, Origin of Appalachian synclinoria as sedimentary basins - possibilities for the Piedmont and Blue Ridge: Geol. Soc. America Southeast Section Meeting Abstracts, v. 20, no. 4, p.260.
- Diecchio, R.J., 1988, Ordovician sedimentary basins of the Appalachians: *in* Williams, S.H., and Barnes, C.R., eds., Program and Abstracts, Fifth International Symposium on the Ordovician System, St. John's, Newfoundland, Canada, p. 25.
- Diecchio, R.J., 1989, Late Ordovician glacioeustatic effects interpreted from Central Appalachian Stratigraphy: Geol. Soc. America National Meeting Abstracts, v. 21, no. 6, p. A334.
- Diecchio, R.J., 1990, Stratigraphic analysis of cyclicity within the Upper Ordovician sequence boundary interval, Central Appalachians: Geol. Soc. America Northeast Section Meeting Abstracts, v. 22, no. 2, p. 11.
- Larsen, E., and Diecchio, R.J., 1990, Quartz characteristics and provenance of Lower Paleozoic arenites of Northern Virginia: Virginia Journal of Science, v. 41, p. 92.

- Diecchio, R.J., 1991, Development of flexural moat and peripheral bulge within the Appalachian Valley and Ridge during the Middle Ordovician: *Geol. Soc. America Northeastern/Southeastern Section Meeting Abstracts*, v. 23, no. 1, p. 21.
- Brodersen, B.T., and Diecchio, R.J., 1991, Correlation of well-logs from the subsurface of West Virginia using relative sea-level curves: *Virginia Journal of Science*, v. 42, p. 218.
- Diecchio, R.J., and Brodersen, B.T., 1991, Recognition of long- and short-term correlative sea-level events in electric well-logs: *Geol. Soc. America National Meeting Abstracts*, v. 23, no. 5, p. A350.
- Diecchio, R.J., 1992, Lower Silurian stratigraphic correlations in the subsurface of West Virginia: *Geol. Soc. America Southeastern Section Meeting Abstracts*, v. 24, no. 2, p. 12.
- Diecchio, R.J., 1992, Gravity and isostasy in the introductory geology lab: *Geol. Soc. America Northeastern Section Meeting Abstracts*, v. 24, no. 3, p. 17.
- Diecchio, R.J., 1992, Nomenclature and stratigraphy of the Martinsburg and Reedsville Formations in Virginia and adjacent states: *Virginia Journal of Science*, v. 43, p. 262.
- Diecchio, R.J., 1992, Cumulative aggradation plots - tools for stratigraphic correlation and the recognition of sequences and unconformities: *Geol. Soc. America National Meeting Abstracts*, v. 24, no. 7, p. A357.
- Williams, A.A. and Diecchio, R.J., 1994, Sediment analysis of Gunston Cove, Potomac River, Virginia: *Geol. Soc. America Northeastern Section Meeting Abstracts*, v. 26, p. 80.
- Tiano, M.E., and Diecchio, R.J., 1994, Cumulative aggradation plots of the Lower Silurian in the subsurface of the Appalachian basin in West Virginia: *Geol. Soc. America Southeastern Section Meeting Abstracts*, v. 26, p. 66.
- Chianese, G.C., Hall, J.C., Diecchio, R.J., 1994, Ichnofossils and ichnofacies of the Lower Silurian Rose Hill Formation in Virginia and West Virginia: *Geol. Soc. America Southeastern Section Meeting Abstracts*, v. 26, p. 7.
- Diecchio, R.J., 1994, Upper Ordovician CAP correlations of the Central Appalachians and Anticosti Island - implications for glacioeustasy: v. 26, p. 245-246.
- Diecchio, R.J., 1996, An undergraduate program to face geology's identity crisis: *Geol. Soc. America Southeastern Section Meeting Abstracts*, v.28, no. 2, p. 9.
- Diecchio, R.J., 1996, A modular approach for earth science and geology field courses: *Geol. Soc. America National Meeting Abstracts*, v. 28, no. 7, p. A-268.
- Diecchio, R.J., and Hall, J.C., 1998, New? Trace fossils from the Ordovician-Silurian clastic sequence of West Virginia and Maryland: *Geol. Soc. America Southeastern Section Meeting Abstracts*, v. 30, no. 4, p. 10.
- Hall, J.C., and Diecchio, R.J., 1998, Conodont biostratigraphy and the timing of sea-level events in the Middle-Upper Ordovician Reedsville Formation of West Virginia: *Geol. Soc. America Southeastern Section Meeting Abstracts*, v. 30, no. 4, p.16.
- Haynes, J.T., and Diecchio, R.J., 1998, Systems tract development along Taconic collisional margin at the level of the second-order cycle: *Geol. Soc. America Southeastern Section Meeting Abstracts*, v. 30, no. 4, p. 17.
- Vidal, S and Diecchio, R.J., 1998, Spatial and temporal analysis of precipitation patterns in the U.S., 1931-1997: *Virginia Journal of Science*, v. 49.
- Avary, K.L., McDowell, R.R., Matchen, D.L., and Diecchio, R.J., 1999, Previously unmapped Upper Ordovician Reedsville Formation and Oswego Sandstone, Jack Mountain, Valley and Ridge, Highland County, Virginia: *Geol. Soc. America Southeastern Section Meeting Abstracts*, v. 31, no. 3, p A-2.

- Diecchio, R.J., 1999, Were the Appalachians glaciated during the Paleozoic?: Geol. Soc. America Southeastern Section Meeting Abstracts, v. 31, no. 3, p. A-13.
- Hall, J.C., and Diecchio, R.J., 1999, Oh where, oh where is the Ordovician-Silurian boundary in the Central Appalachians (based on conodonts): Geol. Soc. America Southeastern Section Meeting Abstracts, v. 31, no. 3, p. A-18.
- Vidal, S., and Diecchio, R.J., 1999, Temporal and spatial analysis of precipitation patterns: 1931-1996: Virginia Journal of Science, v. 50, p. 145.
- Diecchio, R.J., 1999, Buoyancy and isostatic mass balance modeling as a quantitative exercise: Geol. Soc. America National Meeting Abstracts, v. 31, no. 7, p. A-210.
- Diecchio, R.J., Gray, K.E., McDowell, R.R., Dennison, J.M., 2001, Eocene igneous activity and related phenomena, Central Appalachian Valley & Ridge: Geol. Soc. America Southeastern Section Meeting Abstracts, v. 33, no. 2, p. A-6.
- Diecchio, R.J., 2002, Spatial and temporal relationships between dikes, thermal springs, and drainage divides in the Appalachian Valley & Ridge and the Chesapeake Bay impact crater: Geological Society of America Annual Meeting Abstracts, v. 34, no. 6, p. 466-467.
- Diecchio, R.J., and Walton, D.P., 2003, The Falling Spring of Virginia: Geological Society of America Annual Meeting Abstracts, v. 35, no. 6, p. 373.
- Dailide, L.M., and Diecchio, R.J., 2005, Joint and lineament analysis of granites in the Virginia Piedmont to determine expanse of radiating fractures from the Chesapeake Bay impact crater: Geological Society of America Annual Meeting Abstracts, v. 37, no. 7, p. 299.

INVITED LECTURES

George Mason University, Department of Chemistry, Fairfax, Virginia; February 1980.
Rider College, Department of Geology, Lawrenceville, New Jersey; March, 1980.
Appalachian Geological Society, Charleston, West Virginia; November, 1980.
James Madison University, Department of Geology, Harrisonburg, Virginia; April, 1981.
Thirteenth Annual Appalachian Petroleum Geology Symposium, Morgantown, WV; March 1982,
Geological Society of Washington, Washington, D.C.; January, 1983.
Northern Virginia Minerals Club, Alexandria, Va.; January, 1983.
James Madison University, stratigraphy class, Harrisonburg, Virginia; November, 1983.
Appalachian Geological Society, Clarksburg, West Virginia; March, 1986.
Seventeenth Annual Appalachian Petroleum Geology Symposium, Morgantown, WV; March, 1986.
Fairfax Earth Science Teachers Association, Fairfax, VA; April, 1987.
Georgia State University, Department of Geology, Atlanta, GA; February, 1988.
Emory University, Department of Geology, Atlanta, GA; February, 1988.
University of North Carolina, Department of Earth Sciences, Wilmington, NC; April 1990
George Washington University, Department of Geology, Washington, DC; April 1992
Geological Society of Washington, April 2003
33rd Annual Virginia Field Conference, Staunton, VA, October 2003.

PROFESSIONAL MEMBERSHIPS

National Association of Geoscience Teachers
American Geophysical Union
Geological Society of America
Virginia Academy of Science
Geological Society of Washington

SERVICE TO PROFESSIONAL ORGANIZATIONS

Geological Society of America

Co-Chair, Joint Northeastern-Southeastern Section Meeting, Tysons Corner, VA, March 2004
Field Trip Leader, Regional Tectonic History of Northern Virginia, NE/SE Section Meeting,
March 2004
Co-Chair of technical session:
"Stratigraphy: Paleozoic Paleogeography, Tectonics, and Sedimentation", Northeast/Southeast
Section Meeting, Washington, DC, 1982
"Appalachian Basin Stratigraphy", Southeast Section Meeting, Columbia, SC, 1988
"Scales of Phanerozoic Stratigraphic Cyclicity" at Southeast Section Meeting, Blacksburg,
VA, 1994
Participant, Penrose Conference on "Syn-sedimentary Tectonics", Durango, CO, 1986
Campus representative, 1988-present
State representative, Southeastern Section Education Committee, 1992-1996.

SEPM (Society for Sedimentary Geology)

Southeastern Section: Co-Founder & First President, 1992-94
Eastern Section, President, 1990-91; Vice President, 1989-90
Publications Policy Committee, 1995-98
Field Trip Leader, SEPM 3rd Annual Midyear Meeting, August 1986
Field trip leader: Eastern Section SEPM, Oct 1985

Virginia Academy of Science

Registration coordinator for 1983 meeting
Vice President, Geology Section, 1984-85
President, Geology Section, 1985-86
Councilor, Geology Section, 1998-2000

National Association of Geoscience Teachers

Associate Editor, *Journal of Geoscience Education*, 1999-2002

Geological Society of Washington

Field trip leader, November 2001.
Council Member, 2002-03.
Program Committee, 2003-2004

International Union of Geological Sciences

International Subcommission on Ordovician Stratigraphy, corresponding member (1990-present)
Organizing Committee and Field Trip Leader, Second International Symposium on the Silurian System, 1996

Virginia Board of Geology

Member of examination board, 1995

American Association of Petroleum Geologists

Field Seminar assistant: "Stratigraphy & exploration trends of Appalachian Basin", 1979-1982

Natural Science Resource Center (Smithsonian Institution & National Academy of Sciences)

Review Panel, resource guide for elementary science programs, 1995

National Geographic Society

Technical consultant, 1985

UNIVERSITY SERVICE

University & Faculty Senate Committees:

Educational Aid and Faculty Research Committee (1981-82)
Teacher/Course Evaluation Committee (1981-82, 1982-83)
General Education Task Force (1986-91); Chair, Core Science Sub-committee (1989-90)
Task Force on the Library (1988-1989)
Natural Science General Education Assessment Committee (1990-93)
Coordinating Committee, Colloquium on the Future of the Baccalaureate (1993)
Radiation Safety Review Board (1992-95)
Committee on the Environment (1998-1999)
Continuing & Professional Education Academic Council, CAS Representative (1998-2006)
Task Force on University Life (2005)
College of Science Dean Search Committee (2005-06)

College of Arts and Sciences:

Academic Policies and Planning Committee (1983-86, 1991-93)
Dean's Science Advisory Committee (1989)
Ad Hoc Committee on General Education (1990)
College Council Ad Hoc Committee on General Education (1994-96)
College Council Representative (1995-96); General Education Subcommittee (1994-1996)
Graduate Planning Committee (1995-96, 1996-97)
General Education Committee (1996-97)
Dean Search Committee (1996-97)
Chair, Math Chair Search Committee (1996), internal search
Dean's Advisory Committee (1997-present)
Chair, Public and International Affairs Chair Search Committee (1997-98), national search
Coordinator, Ad-hoc General Education Quantitative Reasoning Review Committee (1997-98)
Coordinator, CAS/GSE Instructional Development Workshops (1997-98)
Chair, Psychology Chair Renewal Committee (1998)
Coordinator, Science Tutoring Center (1998)
Chair, Communications Chair Search Committee (1998-99), internal search
Dean's committee to integrate New Century College and CAS (2003-04)

Department of Chemistry (1980-1982):

Geology Committee (1980-82)
Faculty Hiring Committee (1981-82)

Department of Geology (1982-90):

- Faculty Recruitment Committee (1986-87)
- Employment Opportunities Committee (1982-85)
- Grants Committee (1981-82)
- Student Research Committee (1983-86)
- Curriculum Committee (1983-85, 89-90)
- Geology Club Advisor (1982-83, 1985-90)
- Class Scheduling (1987-1990)
- Generated proposal for Geology B.A. degree program (1987-88)
- Faculty Evaluation Committee (1989-1990)

Department of Geography & Earth Science (1990-2001):

- Chair (1995-2001)
- Director of Geology Program (1990-1995)
- Director, Program in Earth Systems Science (1992-1995)
- Faculty Hiring Committee (1992-93, 4 positions); Chair (1993-95)
- Joint GESS-CSI Hiring Committee (1992-93)
- GEO Club Advisor (1990-2001)
- Sigma Gamma Epsilon Advisor (1990-2001)

Department of Environmental Science & Policy (2001-present)

- Interim Director (2000-2001)
- Director of Geology Program (2001-2003)
- GEO Club Advisor (2001-present)
- Sigma Gamma Epsilon Advisor (2001-present)
- Chair's Advisory Committee (2003-04)
- Chair, Mineralogy Search Committee (2003-04)
- Chair, Faculty Contract Renewal Review Committee (2003-04)
- Promotion & Tenure Committee (2004-05)
- Contract Renewal Committee for Changwoo Ahn (2005-06)
- Graduate Executive Committee (2005-2006)

Graduate School of Education:

- Science Education Hiring Committee 1992-93
- Secondary Education Coordinating Committee 1992-93
- Helped prepare joint AAAS-GMU Grant Proposal to NSF, 1993

Other:

- Cooperative Education Search Committees (1982, 1984)

GMU Geology/Earth Systems Science undergraduate student research supervision:

- George Mattingly: Paleocology of upper Martinsburg strata in northern Virginia (1980-81)
Karen Gray: Petrology and Geochemistry of Eocene dike swarm, Highland County, Virginia (1982-84)
Twila Holbrook and Steven Riddle: Sedimentology and paleocology of Hamilton Group, Gore, VA (1983)
Bjarne Iverson: Conodont biostratigraphy of the Reedsville Formation, Ordovician, Pendleton County, West Virginia (1984).
Jeanne Casey: Silurian stratigraphic correlations in central Virginia (1985).
Christopher Galagan: Influence of antecedent topography on inner continental shelf off Cape May, New Jersey (1986-87)
Grant Richardson: Computer-generated structural analysis of a portion of the outer continental shelf (1988)
Elizabeth Larsen: Quartz characteristics and provenance of Lower Paleozoic sandstones of Virginia (1989-90)
Brett Brodersen: Paleozoic relative sea-level changes interpreted from electric well-logs (1990-91)
Betsy Tiano: Cumulative aggradation plots of the Lower Silurian of the Appalachian Basin (1992-93)
Anita Williams: Sediment distribution in Gunston Cove, Potomac estuary, Virginia (1993-94)
Lina Dailide: Fracture analysis of the Petersburg Granite (2003-04)
Jason Jessup: BAIS project, Simulation of the lower Colorado drainage system (2006)

GMU Bachelors of Individualized Study project supervision:

- David Alberg: Geology Collections Management (1994-95)

Graduate Committees (* = committee chair):

- E. Lynn Ziegler, M.S., Geology, Emory University, (1988).
Elizabeth D. Cron, M.S., Geographic and Cartographic Sciences (1988-1989).
Jim Coles, Ph.D., Biology (1990-92)
Marion Fischer, M.S., Environmental Science and Public Policy (1993-present)
Elizabeth Sherwin, Ph.D., Environmental Science and Public Policy (1993-2000)
Luis Nieves, Ph.D., Environmental Science & Public Policy (1994-98)
Mike Pendleton, M.S., Biology, Environmental Science & Public Policy Concentration (1994-95)
Terri Hartsell, Ph.D., Biology (1995-2001)
* Alex Karlson, M.S., Biology, Environmental Science & Public Policy Concentration (1996-98)
Matthew Bechdol, M.S., Geographic & Cartographic Sciences (1999)
Nathaniel Herold, M.S., Geographic & Cartographic Sciences (2000-01)
Terrence Slonecker, PhD, Environmental Science & Public Policy (1999-present)
Marci Robinson, PhD, Environmental Science & Public Policy (2001-present)
Chris Stone, MS, Environmental Science & Public Policy (2002-present)
* Wilma Aleman-Gonzalez, MS, Environmental Science & Public Policy (2002-present)
* Geb Bennett, MA, Master of Arts in Interdisciplinary Studies (2003-present)
* Chris Branigan, MS, Environmental Science & Public Policy (2003-present)
* Florence Katrivanos, MA, Master of Arts in Interdisciplinary Studies (2004-present)

EXTRAMURAL EDUCATIONAL ACTIVITIES & COMMUNITY SERVICE

Contract courses for teachers in Fairfax, Loudoun, and Prince William County Public Schools
Advisor to Prince William County Public Schools. Reviewed 9th grade Physics program at Potomac HS.
Member of Bennett Elementary Advisory Council, 1990-91.
Advisory Council, Marsteller Middle School, 1992-94 (vice-chair, 1993-94)
Lectures to grade school and middle school classes
Judge, Prince William Regional Science Fair (1992, 93, 94, 95, 96, 98, 00)
Judge at grade, middle, and high school science fairs
Field trips/ inservice courses, Prince William County: October 2000, August 2001, July 2003

OTHER COMMUNITY SERVICE

YMCA Indian Guides/Princesses Program, tribe and longhouse officer, 1984-1990.
Greater Manassas Baseball League
 Coach, 1987-1998
 Board of Directors, 1995-96
President, Jackson Manor II Homeowners Association, 1989-1993.
Vice President, PTA, Bennett Elementary School, 1990-91.
Boy Scouts of America
 Assistant Webelo Den Leader, 1990-1991.
 Boy Scout Troop 670, Merit Badge Councilor, 1992-1993