

## **Richard J. (Rick) Diecchio**

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Certified Professional Geologist no. 385, Commonwealth of Virginia

### **ADMINISTRATIVE EXPERIENCE**

George Mason University

Associate Dean for Student & Academic Affairs, College of Science (8/09-6/11)  
Associate Dean for Undergraduate Programs, College of Science (5/06-8/09)  
Interim Director, Program in Environmental Science & Policy, 7/00-6/01  
Chair, Department of Geography & Earth Science (7/95-6/01)  
Director, Earth Science Program (1/92-7/95)  
Director, Geology Program (9/90-7/95)

### **ACADEMIC EXPERIENCE**

George Mason University (9/80 to present)

Assistant Prof. (9/80-5/86); Associate Prof. (5/86-5/98); Professor of Geology (5/98-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 (Field Camp), 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) – Adjunct Instructor for Field Camp

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

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**

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.  
Advisor: John M. Dennison

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.  
Advisor: George W. Lynts

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

## **CORPORATE/GOVERNMENT EXPERIENCE**

West Virginia Geological and Economic Survey, Morgantown, WV (1982-2004)  
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.

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.

Dunn Geoscience Corp., Latham, NY (summers of 1970, 1972)  
Field Geologist. Duties included geochemical sampling and regional reconnaissance for metal sulphide exploration.

## **RESEARCH INTERESTS**

Regional geology  
Appalachian 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 research 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 research 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)

## PUBLICATIONS

### Papers, Articles, 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 Dennison, 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 33<sup>rd</sup> 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.
- Diecchio, Rick, 2005, Dealing With the Toll of Katrina, editorial: *The Washington Post*, Sep16, 2005, p. A30
- Diecchio, R.J., 2007, Six articles (listed below) *in* Robbins, Paul, ed., *Encyclopedia of Environment and Society*, Sage Publications.  
 Drilling (Oil and Gas), v. 2, p. 484-485  
 Geology, v. 2, p. 754-756  
 Geothermal Energy, v. 2, p. 759-760  
 Glaciers, v. 2, p. 770-771  
 Ice Ages, v. 3, p. 905-906  
 Ring of Fire, v. 4, p. 1511-1512

## 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, Alleghany 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.
- Aleman Gonzalez, W.B., Self-Trail, J.M., and Diecchio, R.J., 2006, Coniacian-Santonian sequence stratigraphy of the Kure Beach and Elizabethtown cores, southeastern North Carolina Coastal Plain, USA: Geological Society of America, Annual Meeting Abstracts, v. 38, no. 7, p. 501.
- Cone, K., Krekeler, M., and Diecchio, R., 2006, Investigation of diagenesis of phosphatic sediments in the Ordovician Reedsville Formation near the Allegheny Front in Pendleton County, West Virginia: Geological Society of America, Annual Meeting Abstracts, v. 38, no. 7, p. 144.
- Aleman Gonzalez, W.B., Diecchio, R.J., and Self-Trail, J.M., 2007, Sedimentary analysis of Coniacian-Santonian sediments of the Kure Beach and Elizabethtown cores, southeastern North Carolina Coastal Plain, USA: Geological Society of America, Southeastern Section Meeting Abstracts, v. 39, no. 2, p. 33.
- Diaz Diaz, V., Aleman Gonzalez, W.B., Diecchio, R.J., Harris, W.B., 2010, Late Cretaceous sequence stratigraphy of the Dixon and Kure Beach cores, Atlantic Coastal Plain, North Carolina, USA: Geological Society of America, Northeastern-Southeastern Meeting Abstracts, v. 42, no. 1, p. 153.
- Aleman Gonzalez, W.B., Self-Trail, J.M., Harris, W.B., Diecchio, R.J., Farrell, K.M., Verardo, S., Pierson, J., 2011, Cenomanian to Santonian sequence stratigraphy of the Kure Beach and Elizabethtown cores, Cape Fear River basin, NC: Geological Society of America, Southeastern Section Meeting Abstracts, v. 43, no. 2, p. 70.

## PROFESSIONAL MEMBERSHIPS

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

## ACTIVITY IN PROFESSIONAL ORGANIZATIONS

### Geological Society of America

Elected Fellow, 2011  
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  
John H. Moss Award for Excellence in College Teaching, 2005, Eastern Section NAGT

### Geological Society of Washington

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

### **Virginia State Science & Engineering Fair**

Director, 2007, 2008, 2009

### **International Union of Geological Sciences**

International Subcommittee on Ordovician Stratigraphy, corresponding member (1990-1996)  
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 to John Dennison: "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

## **EDUCATIONAL FIELD TRIPS**

Trip leader for the following:

For George Mason GEO Club:

- Southwestern US/Basin & Range, Colorado Plateau, 2000, 2002
- Hawaii, 2001
- Patagonia/Argentina & Chile, 2003
- Italy, 2004, 2005

For Prince William County high school earth science teachers:

- Virginia & West Virginia, 2000
- Northwestern US/Cascades to Yellowstone, 2002
- Iceland, 2003

For George Mason University, Center for Global Education

- Ecuador/Andes and Galapagos, 2008

## **STUDENT RESEARCH SUPERVISION**

All at George Mason University unless otherwise mentioned

### **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)  
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 Karlsen, M.S., Biology, Environmental Science & Public Policy Concentration (1996-98)  
Matthew Bechdol, M.S., Geographic & Cartographic Sciences (1999)  
Terrence Slonecker, PhD, Environmental Science & Public Policy (1999- 2007)  
Nathaniel Herold, M.S., Geographic & Cartographic Sciences (2000-01)  
Marci Robinson, PhD, Environmental Science & Public Policy (2001-07)  
\* Wilma Aleman-Gonzalez, MS, Environmental Science & Public Policy (2002-08)  
Chris Stone, MS, Environmental Science & Public Policy (2002-06)  
\* Geb Bennett, MA, Master of Arts in Interdisciplinary Studies (2003-08)  
\* Chris Branigan, MS, Environmental Science & Public Policy (2003-07)  
Florence Katrivanos, MA, Master of Arts in Interdisciplinary Studies (2004-09)  
Kurt Moser, MS, Environmental Science & Policy (2005-07)

### **GMU Geology/Earth 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)

### **GMU Bachelors of Individualized Study project supervision:**

David Alberg: Geology Collections Management (1994-95)  
Jason Jessup: BAIS project, Simulation of the lower Colorado drainage system (2006)

**UNIVERSITY SERVICE**  
**(excluding department-level committees)**

**University & Faculty Senate Committees:**

Educational Aid and Faculty Research Committee (1981-82)  
Teacher/Course Evaluation Committee (1981-82, 1982-83)  
Cooperative Education Search Committees (1982, 1984)  
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 (1998-2009)  
Task Force on University Life (2005)  
College of Science Dean Search Committee (2005-06)  
General Education Committee (2008-2011)  
Graduate Council (2009-2011)

**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)  
Coordinator, Ad-hoc General Education Quantitative Reasoning Review Committee (1997-98)  
Coordinator, 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)

**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

## **EDUCATIONAL COMMUNITY SERVICE**

Contract courses for teachers in Fairfax, Loudoun, and Prince William County Public Schools  
Field Trips for Prince William County High School Earth Science Teachers (listed separately above)  
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  
Director, Virginia State Science & Engineering Fair (2007, 2008, 2009)

## **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