

GEORGE E. VAN SCOYOC

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Education

Ph.D.	Soil Chemistry/Mineralogy	Purdue University, 1976
M.S.	Soil Chemistry	The Ohio State University, 1972
B.S.	Agronomy	The Ohio State University, 1969

Professional Experience

Professor of Agronomy, Purdue University, 1984-present
Visiting Professor of Soil Science, Szent István University Gödöllő, Hungary, March–June, 2002
Visiting Professor of Soil Science, Michigan State University, E. Lansing, Michigan, July–Dec. 2002
Associate Executive Vice President for Academic Affairs, Purdue University, 1992–2001
Assistant Head, Department of Agronomy, Purdue University, 1985–1991
American Council on Education Fellow, Office of the President, Wabash College, 1989–1990
Visiting Associate Professor of Soil Science, North Carolina State University, 1983–1984
Assistant Professor and Associate Professor of Agronomy, Purdue University, 1976–1984
Graduate Instructor of Agronomy, Purdue University, 1972–1976
Lieutenant, U.S. Army, Medical Service Corp, Fort Sam Houston, 1972
Graduate Teaching Assistant, The Ohio State University, 1969–1971

Purdue Responsibilities - Administration, Teaching, and Research

From 1992 to 2001, served as the Associate Executive Vice President for Academic Affairs engaged in matters of personnel, budget, academic planning, program evaluation and general academic policy development and implementation for the University. Currently, as Professor of Agronomy, responsibilities include teaching soil science, soil fertility, senior seminar, scientific presentations, short-courses for certified crop professionals, soil and water conservationists, and environmental scientists, as well as providing outreach to pre-college students, serving on research review committees and conducting research in the areas of soil chemistry, fertility, and mineralogy. Research efforts have concentrated on the mineralogy and surface chemistry of fibrous clays and aluminum hydroxides, the interaction of clays with cell membranes, the adsorption of organic compounds by soils and clays, movement of nutrients and pesticides in soil, the spectral reflectance characteristics of soils, and soil pH impacts on plant growth and development, and the impact of soil forming factors on soil pH buffering. Co-developed and patented a soil organic matter sensor to aid in site-specific management of soils.

Awards and Honors

Gamma Sigma Delta Award of Merit, Purdue University, 2002
Purdue University Book of Great Teachers, 1999
The Ohio State University, College of Agriculture, Distinguished Alumni Award, 1992
American Council on Education Fellow, 1989–1990
Soil Science Society of America Education Award, 1989
Fellow, Soil Science Society of America, 1988
Fellow, National Association of Colleges and Teachers of Agriculture, 1988
Fellow, American Society of Agronomy, 1987
American Society of Agronomy Agronomic Resident Education Award, 1985
American Society of Agronomy CIBA-GEIGY Award, 1985
Purdue University Amoco Outstanding University Teacher Award, 1985
School of Agriculture Outstanding Teacher Award, 1985; Outstanding Counselor Award, 1983
Purdue University "Best Counselor" Award (Omicron Delta Kappa), 1983

Courses Taught

<u>Course Title</u>	<u>Years</u>	<u>Semester</u>	<u>Credit</u>	<u>Annual No. Students</u>
Soil Science	2001, 2003-2006	Fall, Spring	3	150
Senior Seminar	2003-2006	Fall	1	45
Graduate Seminar	2001, 2003-2006	Fall	1	12
Soil Science	1992-2001	Spring	3	140
Soil Science	1976-92	Fall & Spring	3	400
Soil Fertility	1976-91, 2003-2006	Spring	3	90
Sophomore Seminar	1976-83	Fall	1	70
Soils and Land Use	1977-79	Fall	2	50
Land Use Policy	1981	Fall	1	20
Advanced Soil Fertility	1982	Summer	1	6
Soils and Soil Fertility	1986-88	Spring (8 Wks.)	3	29
International Agriculture	1988-90	Summer (2 Wks.)	2	24

Memberships in Professional Societies

American Society of Agronomy
 Soil Science Society of America
 National Association of Colleges and Teachers of Agriculture
 International Soil Science Society
 Council for Agricultural Science and Technology
 Soil Conservation Society of America

Refereed Papers

1. Serna, C., G. E. Van Scoyoc, and J. L. Ahlrichs. 1976. Uncoupled water found in palygorskite. *J. Chem. Phys.* 65:3389-3390.
2. Serna, C., G. E. Van Scoyoc, and J. L. Ahlrichs. 1977. Hydroxyl groups and water in palygorskite. *Am. Mineral* 62:784-792.
3. Van Scoyoc, G. E., C. Serna, and J. L. Ahlrichs. 1979. Structural changes in palygorskite during dehydration and dehydroxylation. *Am. Mineral* 64:215-223.
4. Serna, C., and G. E. Van Scoyoc. 1979. Infrared study of sepiolite and palygorskite, p. 197-206. *In* Mortland, M. M. and V. C. Farmer (ed.) *Developments in Sedimentology 27*, International Clay Conference 1978. Elsevier Sci., Oxford.
5. McFee, W. W., J. L. Ahlrichs, and G. E. Van Scoyoc. 1980. Team approach to instruction. *J. Agron. Educ.* 9:19-22.
6. Lightner, J. W., C. L. Rhykerd, E. L. Hood, G. E. Van Scoyoc and D. B. Mengel. 1981. Effect of N P K fertilization on dry matter yield and crude protein concentration of *Poa pratensis* L. grown on muck soil. *Ind. Acad. Sci.* 90:423-427.
7. Oscarson, D. W., G. E. Van Scoyoc, and J. L. Ahlrichs. 1981. Effect of poly-2-vinyl pyridine-N-oxide and sucrose on silicate-induced hemolysis of erythrocytes. *J. Pharm. Sci.* 70:657-659.
8. Lightner, J. W., C. L. Rhykerd, G. E. Van Scoyoc, D. B. Mengel, C. H. Noller, and B. O. Blair. 1981. Effect of N P K fertilization on mineral composition of *Poa pratensis* L. grown on a shallow muck soil. *Proceedings XIV International Grasslands Congress*. Lexington, KY. pp. 294-297.
9. Lightner, J. W., C. L. Rhykerd, D. B. Mengel, G. E. Van Scoyoc, E. L. Hood, and C. H. Noller. 1983. Influence of N P K fertilization on calcium and magnesium in *Poa pratensis* L. with reference to dietary requirements of grazing cattle, permanent pasture. *Commun. in Soil Sci. Plant Anal.* 14:121-130.
10. Van Scoyoc, G. E. and W. W. McFee. 1983. Development of computer programs to assist in soils instruction. *J. Agron. Educ.* 12:53-57.
11. Latz, K., R. A. Weismiller, G. E. Van Scoyoc, and M. F. Baumgardner. 1984. Characteristic variations in spectral reflectance of selected eroded Alfisols. *Soil Sci. Soc. Am. J.* 48:1130-1134.

12. Beyrouthy, C. A., G. E. Van Scoyoc, and J. R. Feldkamp. 1984. Evidence supporting specific adsorption of boron on synthetic aluminum hydroxides. *Soil Sci. Soc. Am. J.* 48:284-287.
13. Weismiller, R. A., G. E. Van Scoyoc, S. E. Pazar, K. Latz, and M. F. Baumgardner. 1984. Utilization of the spectral properties of soils for monitoring soil erosion. *Proceedings of the International Erosion conference*. Honolulu, Hawaii.
14. Oscarson, D. W., G. E. Van Scoyoc, and J. L. Ahlrichs. 1986. Lysis of erythrocytes by silicate minerals. *Clays and Clay Minerals* 34:74-80.
15. Kladvko, E. J., R. L. Huffman, K. M. Oates, G. E. Van Scoyoc, F. J. Laring, and E. J. Monke. 1987. Movement of Pesticides and Nutrients Into Tile Drainage Water in Southeastern Indiana. *Proceedings of Focus: Conference on Midwestern Ground Water Issues*.
16. Fernandez, R. N., D. G. Schulze, D. L. Coffin, and G. E. Van Scoyoc. 1988. Color Relationships in Two Toposequences of Soils formed in Wisconsinan Aged Loess and Glacial Till. *Soil Sci. Soc. Amer. J.* 52:1023-1026
17. Karr, M. C., K. L. Barber, G. E. Van Scoyoc, J. L. Ahlrichs and W. W. McFee. 1988. Three Phase Discussion Sessions. *J. Agron. Ed. Vol. 17, no. 2*, pp. 77-80.
18. Monke, E. J., E. J. Kladvko, G. E. Van Scoyoc, M. A. Martinez, and R. L. Huffman. 1989. Movement of Pesticides and Nutrients in Drainage Water. *Proc. 11th Intl. Cong. on Ag. Engin., Dublin, Ireland.* 1:305-310.
19. Kladvko, E. J., G. E. Van Scoyoc, E. J. Monke, K. M. Oates, and W. Paske. 1991. Pesticide and Nutrient Movement into Subsurface Tile Drainage Water on a Silt Loam Soil in Indiana. *J. Environ. Quality*, 20:264-270.
20. Shonk, J. L., L. D. Gaultney, D. G. Schulze, and G. E. Van Scoyoc. 1991. Spectoscopic Sensing of Soil Organic Matter Content. *Transactions of the American Society of Agricultural Engineers*, 34:1978-1984.
21. Schulze, D. G., J. L. Nagel, G. E. Van Scoyoc, T. L. Henderson, M. F. Baumgardner and D. E. Stott. 1992. The Significance of Organic Matter in Determining Soil Colors, pp 71-90. In: J. M. Bigham and E. J. Ciolkosz (ed.). *Soil Color*. *Soil Sci. Soc. Amer. Spec. Publ., No. 31*, Soil Science Society of America, Madison, WI.
22. Kladvko, E. J., J. Grochulska, R. F. Turco, G. E. Van Scoyoc, and J. D. Eigel. 1999. Pesticide and Nitrate Transport into Subsurface Tile Drains of Different Spacings, *J. EnvironQual*, 28: 997-1004.