

CURRICULUM VITA

Lawrence Elliott Datnoff

Current Position and Contact Information: Professor and Head, Department of Plant Pathology and Crop Physiology, Louisiana State University, 302 Life Sciences Bldg., Baton Rouge, LA 70803, Phone: 225-578-1366, FAX: 225-578-1415, EMAIL: ldatnoff@agcenter.lsu.edu

Education: Ph.D. Plant Pathology, University of Illinois, Champaign-Urbana, 1985; M.S. Plant Pathology, VPI & SU, Blacksburg, 1981; B.S. Horticulture & Plant Pathology, University of Georgia, Athens, 1976

Professional Experience: LSU / LSU AgCenter, Department of Plant Pathology & Crop Physiology, Professor & Head, 2008-present; LSU AgCenter, Interim Director, International Programs, 2013-2014; University of Florida, Gainesville, Professor, 2003-2008; University of Florida, Belle Glade, Assist., Assoc. & Professor, 1988-2003; USDA-ARS, Ft. Detrick, MD, Research Affiliate, 1986-1988; North Carolina State University, Visiting Scientist, 1985, Jul-Nov; University of Illinois, Graduate Research Assistant, 1981-1985; USAID-Zambian Agriculture, Research Associate, Lusaka, Zambia, 1983-1984; VPI & SU, Graduate Student, 1978-1981; and Peace Corps/Brazil, Horticulturist, 1976-1978

Research Areas: Mineral nutrition and plant disease interactions, biological control, epidemiology and control of soilborne and foliar diseases of rice, turf and vegetables

Honors and Awards: International Society for Silicon in Agriculture and Related Disciplines (ISSAG) Recognition Award, 2017; American Phytopathological Society (APS) – Fellow Award, 2016; Virginia Tech's Department of Plant Pathology, Physiology and Weed Science Alumni Award, 2016; APS International Service Award, 2012; APS Caribbean Division Frederick L. Wellman Award, 2012; Research Award for contributions to the scientific understanding of Silicon in Agriculture, V Simposio Brasileiro sobre Silicio no Agricultura, Vicosa, MG, Brazil, 2010; Florida Phytopathological Society Service Award, 2009; President of the American Phytopathological Society-Caribbean Division, 2009; Invited Visiting Professor, Department of Agronomy, Federal Universidade de Uberlandia, Brazil, 2008; President of the Florida Phytopathological Society, 2007; University of Florida (UF) / Institute for Food & Agricultural Sciences (IFAS) International Fellow Award, 2006; UF International Educator of the Year, College of Agricultural & Life Sciences, 2006; UF's Research Foundation Professorship Award, 2006; Invited Visiting Professor, Institute for Bioresources, Okayama University, Japan, 2006; Recognition Award for contributions to the study of Silicon in Agriculture, III Silicon in Agriculture Conference, Uberlandia, MG, Brazil, 2005; UF / IFAS Interdisciplinary Team Research Award for the Silicon Project-*Team Leader*, 1999; Fundacion BBV Chair (Biological Control), Universidad de Cordoba, Spain, 1997; Fulbright Senior Research Award, Spain, 1996 and 1997; Selected Research Accomplishment Florida Agricultural Experiment Station, 1995; National Council for International Scientific Exchange-International Agricultural Research Centers Pilot Linkage Program Research Fellowship, CIAT, Colombia, 1993; USDA Certificate of Merit, 1988; USDA Certificate of Appreciation, 1988; Sigma Xi, 1983; Gamma Sigma Delta, 1982

Professional Activities: Universidade Federal Rural Pernambuco CAPES/PrInt Steering Committee, member, 2019; Co-chairman of the Editorial Board for Louisiana Agriculture, 2018; Technical advisory committee, USAID-IPM Innovation Lab, chair, 2016; member 2015; Forming a silicon society business meeting, Chair, 6th International Conference on Silicon in Agriculture, Stockholm, Sweden, 26-30 August, 2014; Invited external Ph.D. reviewer for Program in Sustainable Agriculture, The University of Sydney, Australia, 2014; LSU AgCenter Interim Director of International Programs, Representative for International Forum on Processes and Services of Wetland Ecosystems between IGA-CAS, LSU and LSU AgCenter, Changchun, China, 28 July-4 August 2013; LEAD21, 2012-2013; APS International Society Relations Committee, 2012; Chair, LSU Faculty Senate International Education Committee, 2011-2012; member 2010-2013; Chair, International Organizing Committee for Silicon in Agriculture Conferences, China, 2010; Appointed by Chancellor Richardson, LSU AgCenter, to the Ag Leadership Program-Brazil, 2010; Co-Chair, Task Force on

Internationalization of LSU, 2009-2010; Invited external Ph.D. reviewer for School of Biological Sciences, The University of Queensland, Australia, 2010; Co-organized the first Indo-US Workshop on Silicon in Agriculture, Bangalore, India, 25-27 February 2010; Co-organized mini-symposium entitled 'The role of mineral nutrition in IPM for plant disease suppression', 6th International Pest Management Symposium, Portland, OR, 24-26 March, 2009; Invited external PhD reviewer for Faculty of Science and Agriculture, University of Kwazulu-Natal, Scottsville, South Africa, 2009; Invited participant for the Haitian Food Security Summit, Port-au-Prince, Haiti, 23-24 September 2009; Proposal reviewer for USDA-SARE, 2007- 2009; Invited external MS reviewer for Department of Plant Pathology, Federal Universidade de Vicosa, Brasil, 2008; Invited external PhD prelim examiner for Department of Plant Pathology, Federal Universidade de Vicosa, Brasil, 2008; UF / IFAS International Programs Advisor Team, 2007-2008; Invited external PhD reviewer for Departement de Phytologie, Faculte des Sciences de L'agriculture et de L'alimentation, Universite Laval, Quebec, 2007; Editor, J. Plant Nutrition, 2006; Co-organized the 3rd Silicon in Agricultural Conference, Uberlandia, Brazil, 2005; UF/IFAS Awards of Excellence for Graduate Students (Best Master Thesis), committee member, 2005; Proposal reviewer for the Natural Science & Engineering Research Council of Canada, 2004; Scientific reviewer for Pakistan Agricultural Research Council Agricultural Linkage Program, 2003; Scientific reviewer for Illinois Council on Food and Agricultural Research, C-FAR FY-04, External Grants Program, 2003; Scientific reviewer for CRIS Project, Clemson University Experiment Station, 2003; UF/IFAS Tenure and Promotion, 2002-2003; Elected Secretary of the FPS, 2001 (Secretary in 2003, Vice-President in 2005 and President in 2007); Conceived and organized the First International Conference on Silicon in Agriculture, Ft. Lauderdale, FL, 1999; Executive Committee of the Rice Technical Working Group (RTWG), member, 2000-2002 and 1994-1996; Council for International Exchange of Scholars, Fulbright Senior Scholar Program, Review Committee for Southern Europe, member, 1997-1999; Plant protection panel of the RTWG, member, 1994-1996; Co-organized & co-presided mycology session of 4th biennial FPS, 1995; Co-organized & co-presided soilborne disease session of 7th biennial FPS, 2001; UF University Senate, 1996-1998; 2007-2008

APS Offices and Committee Service Activities: APS-SD Awards Committee, 2019-2023; APS Treasurer, 2018-2021; APS Treasurer-Elect, 2017-2018; APS-ISPP Council Representative, 2016; APS Financial Advisory Committee, 2015-2017; APS Council, 2013-2016; APS Caribbean Division Forum Representative, 2011-2013; Chair, 2012; APS Foundation, 2010-2013; APS Press, Senior Editor, 2010-2013; Co-organized first joint meeting of APS-Caribbean Division and Florida Phytopathological Society, Orlando, FL, 16-19 May 2009; Turfgrass committee, APS, member, 1999-2002; Session co-organizer & presided over the 2001 symposium on the Biology of *Magnaporthe grisea* on Turfgrass, APS Annual Meeting; Fungicides & Nematicides Tests, Vegetable Diseases, Section Co-Chair, 1998-2001; Mycorrhizae Committee, APS, Chair, 1995, Vice-Chair, 1994, member 1992-1995; Conceived, organized & presided over a colloquium on 'Disease Suppression in Sustainable Agriculture in Relation to Mineral Nutrition', APS, 1995; Environmental Quality & Plant Health Committee, APS, member, 1993-1996; Associate Editor of Plant Disease, 1992-1994; Presiding Officer, Poster Session, APS, 1989; Office of International Programs, Library Committee, Co-Chair, 1988-1992; Short Term Enrichment Program, Office of International Programs, APS, Chair, 1988-1990, member, 1987; Library and Laboratory Assistance Committee, Program & Policies Committee, Office of International Programs, APS, member, 1986-1989; Tropical Plant Pathology Committee, APS, member, 1986-1989

Languages: Portuguese (fluent) and Spanish (communicate)

Grants: Over 2 million dollars from various agencies including USAID, USDA (ARS, FAS, IR4, SARE, OICD and TSTAR), USGA, GCSAA, Foundations, Commodity Groups and Agricultural Chemical Industries

International Activities: Research: Brazil (Universidade de Uberlandia, Universidade de Vicosa and EMPRABA); Canada (University of Laval); Colombia (CIAT); Japan (Institute for Bioresources, Okayama

University); India (University of Agricultural Sciences-Bangalore); Spain (CONSEJO - IAS and Universidad de Cordoba). Invited lectures, seminars / keynote addresses: Brazil, Canada, Chile, China, Colombia, Costa Rica, France, Germany, Honduras, Hungary, India, Japan, Mexico, Norway, Philippines, Poland, Spain, South Africa, United Kingdom, Venezuela and the US (10 Universities: Auburn, Clemson, UC-Davis, Illinois, Penn State, Purdue, Rutgers, UMASS-Amherst, Vermont & Wisconsin as well as the Conn. Agric. Exp. Stn.)

Career Publications: *Books, Edited:* 3 *Books, contributor of Chapter (s):* 34
 Refereed Publications: 100 *Non-refereed Publications, Abstracts, etc.:* 277

PUBLICATIONS:

Books:

- 1) Rodrigues, F. A. and Datnoff, L. E. 2015. Silicon and Plant Diseases, Springer, AG Switzerland, 148 pp.
- 2) Datnoff, L. E., Elmer, W. H., and Huber, D. 2007. Mineral Nutrition and Plant Disease, American Phytopathological Society, St. Paul, MN, 278 pp. (**CHOICE Award Recipient and APS Press Best Seller 2008-2019**).
- 3) Datnoff, L. E., Snyder, G. H. and Korndörfer, G. H. 2001. Silicon in Agriculture. Elsevier Science, The Netherlands, 403 pp.

Book Chapters:

- 1) Zellner, W. and Datnoff, L. E. 2020. Silicon as a biostimulant in agriculture. In: Biostimulants for sustainable crop production, Eds. Y. Rouphael, P. du Jardin, S de Pascale, and G. Colla, Burleigh Dodds Science Publishing. <http://dx.doi.org/10.19103/AS.2020.0068.07>
- 2) Rodrigues, F. A., Einhardt, A. M., Rios, J. A., Silveira, P. R., Elmer, W. H. and Datnoff, L. E. 2019. Nutricao mineral no manejo das doencas de plantas. Pgs. 37-76. In: Nutricao e adubacao de grandes culturas na regio do cerrado, R. Alves Flores, P. Pinheiro da Cunha, R. Leandro Marchao, M. Ferreira Moraes, Eds., Goiania: Grafica UFG.
- 3) Datnoff, L. E. 2018. Silicon deficiency. Pgs. 82-83. In: Compendium of Rice Diseases and Pests, 2nd Edition, Cartwright, R., Groth, D., Warnishe, Y., Greer, C., Calvert, L., Vera Cruz, C. M., Verdier, V., and Way, M. O., Eds., APS Press, St. Paul, MN.
- 4) Datnoff, L. E. and Elmer, W. H. 2018. Mineral nutrition and florists' crops diseases. Pgs. 237-251. In: Handbook of Florists' Crops Diseases, R. J. McGovern and W. H. Elmer, Eds., Springer.
- 5) Debona, D., Rodrigues, F. A. and Datnoff, L. E. 2017. Silicon's role in abiotic and biotic plant stress. Annu. Rev. Phytopathol. 55:85-107.
- 6) Datnoff, L. E. and Rodrigues, F. A. 2015. History of silicon and plant disease. Pgs. 1-5. In: Silicon and Plant Diseases, Rodrigues, F. A. and Datnoff, L. E., Eds., Springer, AG Switzerland.
- 7) Fortunato, A. A., Rodrigues, F. A., and Datnoff, L. E. 2015. Pgs. 53-66. Silicon control of soilborne and seedborne diseases. In: Silicon and Plant Diseases, Rodrigues, F. A. and Datnoff, L. E., Eds., Springer, AG Switzerland.

- 8) Rodrigues, F. A., Dallagnol, L. J., Duarte, H. S. S., and Datnoff, L. E. 2015. Silicon control of foliar diseases in monocots and dicots. Pgs. 67-108. In: Silicon and Plant Diseases, Rodrigues, F. A. and Datnoff, L. E., Eds., Springer, AG Switzerland.
- 9) Rodrigues, F. A., Resende, R. S., Dallagnol, L. J. and Datnoff, L. E. 2015. Silicon potentiates host defense mechanisms against infection by plant pathogens. Pgs. 109-138. In: Silicon and Plant Diseases, Rodrigues, F. A. and Datnoff, L. E., Eds., Springer, AG Switzerland.
- 10) Datnoff, L. E. and Rodrigues, F. A. 2015. Highlights and prospects for using silicon in the future. Pgs. 139-145. In: Silicon and Plant Diseases, Rodrigues, F. A. and Datnoff, L. E., Eds., Springer, AG Switzerland.
- 11) Elmer, W. and Datnoff, L. 2014. Mineral nutrition and suppression of plant disease. Pgs. 231-244. In: Neal Van Alfen, Editor-in-Chief, Encyclopedia of Agriculture and Food Systems, Vol. 4, San Diego, Elsevier.
- 12) Huang, C. H., Roberts, P. D., and Datnoff, L. E. 2012. Fusarium diseases of tomato. Pgs. 145-158. IN: Fusarium Wilts of Greenhouse Vegetable and Ornamental Crops, A. Garibaldi, J. Katan, and M. L. Guillino, Eds., American Phytopathological Society, St. Paul, MN.
- 13) Uddin, W., Nanayakkara, U., and Datnoff, L. E. 2010. Soil silicon amendment for managing gray leaf spot of perennial ryegrass turf on golf courses. Pgs. 203-226. In: Silicio na Agricultura, Anais do V Simposio Brasileiro sobre Silicio na Agricultura, F. A. Rodrigues, Ed., Universidade Federal de Vicosa, Departamento de Fitopatologia, MG, Brazil.
- 14) Datnoff, L. E. 2010. Differential gene expression of rice in response to silicon and infection by *Magnaporthe oryzae*. Pgs. 227-238. In: Silicio na Agricultura, Anais do V Simposio Brasileiro sobre Silicio na Agricultura, F. A. Rodrigues, Ed., Universidade Federal de Vicosa, Departamento de Fitopatologia, MG, Brazil.
- 15) Datnoff, L. E. and Korndorfer, G. H. 2008. Efeito do silico em gramados. Pgs. 37-45. In: Topicos atuais em Gramados, R. L. Villas Boas, L.J. Grava de Godoy, C. Paulo de Lima, and C. Backes, Eds., Faculdade de Ciencias Agronomicas da Universidade Estadual Paulista (UNESP), Botucatu, SP, Brasil.
- 16) Datnoff, L., Rodrigues, F., and Seebold, K. 2007. Silicon and plant disease. Pgs. 233-246. IN: Mineral Nutrition and Plant Disease, Datnoff, L. E., Elmer, W. H., and Huber, D., eds., American Phytopathological Society, St. Paul, MN.
- 17) Datnoff, L., Elmer, W., Prabhu, A., and Fageria, N. 2007. Balanced chloride, potassium and silicon nutrition for plant disease management. Pgs. 481-513. IN: Balanced Fertilization for Sustaining Crop Productivity, Benbi, D. K., Brar, M. S., Bansal, S. K., Eds., Proceedings of the International Symposium held at Punjab Agricultural University, Ludhiana, India, 22-25 November, Vol. I: Invited Papers, International Potash Institute, Horgen, Switzerland.
- 18) Rodrigues, F. A., and Datnoff, L. E. 2007. Silicon-mediated resistance in monocots: the rice-*Magnaporthe grisea* model. Pgs. 25-58. IN: Inducao de Resistencia em plants a patogenos, F. A.

Rodrigues and R. Da Silva Romeiro, eds., Universidade Federal de Viscosa, Departamento de Fitopatologia.

- 19) Snyder, G., Matichenkov, V., and Datnoff, L. 2006. Silicon. Pgs. 551-568. IN: Handbook of Plant Nutrition, A. Barker and D. Pilbeam, Eds., Taylor and Frances, Boca Raton, FL.
- 20) Datnoff, L., Brunings, A., and Rodrigues, F. 2005. Silicon effects on components of host resistance: an overview and implications for integrated disease management. Pgs. 26-31. IN: III Silicon in Agriculture, Korndorfer, G., ed., Uberlandia, MG, Brasil.
- 21) Pernezny, K., Raid, R., and Datnoff, L. 2002. Bacterial blight and brown stem of celery. Pg. 10. IN: Compendium of Umbelliferous Crop Diseases, Eds., R. M. Davis and R. N. Raid, APS, St. Paul, MN.
- 22) Datnoff, L. E., Seebold, K. W., and Correa-V., F. J. 2001. Use of silicon for integrated disease management: reducing fungicide applications and enhancing host plant resistance. Pg. 171-184. IN: Silicon in Agriculture, Datnoff, L. E., Snyder, G. H. and Korndorfer, G. H, eds., Elsevier Science, The Netherlands.
- 23) Alvarez, J. and Datnoff, L. 2001. The economics of silicon for integrated management and sustainable production of rice and sugarcane. Pg. 220-240 IN: Silicon in Agriculture, Datnoff, L. E., Snyder, G. H. and Korndorfer, G. H, eds., Elsevier Science, The Netherlands.
- 24) Prabhu, A. S., Barbosa-Filho, M. P., Filippi, M. C., Datnoff, L. E. and Snyder, G. H. 2001. Silicon from rice disease control perspective in Brazil. Pg. 293-312. IN: Silicon in Agriculture, Datnoff, L. E., Snyder, G. H. and Korndorfer, G. H, eds., Elsevier Science, The Netherlands.
- 25) Correa-Victoria, F. J., Datnoff, L. E., Okada, K., Friesen, D. K., Sanz, J. I. and Snyder, G. H. 2001. Effects of silicon fertilization on disease development and yields of rice in Colombia. Pg. 313-322. IN: Silicon in Agriculture, Datnoff, L. E., Snyder, G. H. and Korndorfer, G. H, eds., Elsevier Science, The Netherlands.
- 26) Datnoff, L. E., Victoria-Correa, F. J., Seebold, K. W., and Snyder, G. H. 2000. Silicon management of blast in upland and irrigated rice ecosystems. Pp. 180-187. In: Advances in Rice Blast Research, Tharreau, D., Lebrun, M. H., Talbot, N. J., and Notteghem, J. L., Eds., Kluwer Academic Press, The Netherlands.
- 27) Datnoff, L. E and Nagata, R. T. 2000. *Rhizomonas*. Pp. 214-217. IN: Laboratory Guide for Identification of Plant Pathogenic Bacteria, eds. N. Schaad, J. Jones, W. Chun, APS, St. Paul, MN.
- 28) Datnoff, L. E. 1999. Silicon management for disease control in rice. pp. 111-120. IN: Perspectivas para a cultura do arroz nos ecossistemas de varzeas e terras altas, VI Reuniao Nacional de Pesquisa do Arroz. Vol. II, J. L Das Costa and E. P. Guimaraes, eds., EMBRAPA, Goiania, Goias, Brasil.
- 29) Savant, N. K., Snyder, G. H. and Datnoff, L. E. 1997. Silicon management and sustainable rice production. In: Advances in Agronomy. D. L. Sparks, ed., Academic Press. 56:151-199.
- 30) Hartman, G. L. and Datnoff, L. E. 1997. Vegetables. pp. 151-170. In: Hillocks, R. J. and Waller, J. M. (eds), Soilborne Diseases of Tropical Crops, CAB International, Wallingford, United Kingdom.
- 31) Datnoff, L. E. 1994. Influence of plant mineral nutrition on rice disease development. pp. 89-100. In: Teng, P. S., Heong, K. L. and Moody, K. (eds), Advances in Rice Pest Management, IRRI, Los Banos, The Philippines.

- 32) Datnoff, L. E. Fusarium Blight or Wilt, Root Rot, and Pod and Collar Rot. p. 33-35. In: Compendium of Soybean Diseases, 3rd ed., J. B. Sinclair and P. A. Backman, eds., American Phytopathological Society, (1989) 106 p.
- 33) Datnoff, L. E. Extraction and Enumeration of teliospores of *Tilletia indica* in soil. Chapter 4, p. 13-14. In: A Laboratory Guide to Smut Fungi of Regulatory Significance, T. Matsumoto and R. Bell, eds., California Department of Food and Agriculture, (1989) 400 p.
- 34) Matsumoto, T., J. McCarty, M. Prescott, and L. Datnoff. Glycerol filtration seed assay. Chapter 4, p. 7-8. In: A laboratory guide to Smut fungi of regulatory significance, T. Matsumoto and R. Bell, eds., California Department of Food and Agriculture, (1989) 400 p.

Refereed (names bolded indicate graduate student – served as either chair or co-chair):

- 1) Paye, W., Tubana, B. S., Harrell, D. L, and Datnoff, L. 2018. Determination of critical soil silicon levels for rice production in Louisiana using different extraction procedures. Comm. Soil Sci. & Plant Analysis DOI: [10.1080/00103624.2018.1495731](https://doi.org/10.1080/00103624.2018.1495731).
- 2) White, B., Tubana, B. S., Babu, T., Mascagni, H., Agostinho, F., Datnoff, L. E., and Harrison, S. 2017. Effect of silicate slag application on wheat grown under two nitrogen rates. Plants 6, 47:1-14.
- 3) Agostinho, F. B., Tubana, B. S., Martins, M., and Datnoff, L. E. 2017. Effect of different silicon sources on yield and silicon uptake of rice grown under varying phosphorus rates. Plants 6, 35:1-17.
- 4) Babu, T., Tubana, B. S., Datnoff, L., Dupree, P. and White, B. 2017. Survey of plant-available silicon status of agricultural soils in Louisiana. J. Plant Nutr. 41:273-287.
- 5) Flor, N. C., Harmon, P. F., Kenworthy, K., Raid, R. N., Nagata, R. and Datnoff, L. 2017. Screening St. Augustinegrass genotypes for brown patch and large patch disease resistance. Crop Sci. 57:1-9.
- 6) Tubana, B. S., Babu, T., and Datnoff, L. E. 2016. Silicon in soils and plants, and its role in US agriculture: History and future perspectives. Soil Sci. 181:1-19.
- 7) Babu, T., Tubana, B. S., and Datnoff, L. 2016. Release and adsorption pattern of monosilicic acid in different soils of Louisiana treated with silicon fertilizer: a laboratory incubation study. Comm. Soil Sci. and Plant Analysis 47:1517-1527.
- 8) Babu, T., Tubana, B. S., Kanke, Y., Paye, W., and Datnoff, L. 2016. Establishing soil silicon test procedure and critical silicon level for rice in Louisiana soils. Comm. Soil Sci. and Plant Analysis 47:1578-1597.
- 9) Ferreira, H. A., Araujo do Nascimento, C.W., Datnoff, L. E., de Sousa Nunes, G. H., Preston, W., De Souza, E. B., and de Lima Ramos Mariano, R. 2015. Effects of silicon on resistance to bacterial fruit blotch and growth of melon. Crop Prot. 78:277-283.
- 10) **Espinosa, A.**, Miller, G. L., and Datnoff, L. E. 2013. Accumulation of silicon in *Cynodon dactylon* x *C. transvaalensis* and *Poa trivialis* used as an overseed grass. J. Plant Nutr. 36:1719-1732.

- 11) **Sidhu, J. K.**, Stout, M. J., Blouin, D. C. and Datnoff, L. E. 2013. Effect of silicon soil amendment on the performance of sugarcane borer, *Diatraea saccharalis* (Lepidoptera:Crambidae) on rice. Bulletin Entomol. Res. 5:1-9
- 12) **Huang, C. H.**, Roberts, P. D., Gale, L. R., Elmer, W. H., and Datnoff, L. E. 2013. Population structure of *Fusarium oxysporum* f. sp. *radices-lycopersici* in Florida inferred from vegetative compatibility groups and microsatellites. European J. Phyto. Path. 136:509-521.
- 13) Sebastian, D., Rodrigues, H., Kinsey, C., Korndorfer, G., Pereira, H., Buck, G., Datnoff, L., Miranda, S., and Provance-Bowley, M. 2013. A 5-day method for determining soluble silicon concentrations in non-liquid fertilizer materials using a sodium carbonate-ammonium nitrate extractant followed by visible spectroscopy utilizing heteropoly blue analysis. J. AOAC International 96 (2):251-259.
- 14) Prabhu, A. S., Barbosa Filho, M. P., Datnoff, L. E., Snyder, G. H., Berni, R. F., Rodrigues, F. A., and Dallagnol, L. J. 2012. Silicon reduces brown spot severity and grain discoloration of several rice genotypes. Tropical Plant Pathol. 37:409-414.
- 15) **Huang, C. H.**, Roberts, P. D., Datnoff, L. E. 2011. Silicon suppresses Fusarium crown and root rot of tomato. J. Phytopathol. 159:546-554.
- 16) **Lemes, E. M.**, Mackowiak, C. L., Blount, A., Marois, J.J., Wright, D. L., Coelho, L., and Datnoff, L. E. 2011. Effects of silicon applications on soybean rust development under greenhouse and field conditions. Plant Dis. 95:317-324.
- 17) **Buck, G.**, Korndorfer, G., and Datnoff, L. 2011. Extractors for estimating plant available silicon from potential silicon fertilizer sources. J. Plant Nutr. 34 (2):272-282.
- 18) Vendrame, W. A., Palmateer, A. J., Pinares, A., Moore, K. A., and Datnoff, L. E. 2010. Silicon fertilization affects growth of Hybrid Phalaenopsis liners. HortTechnology 20:603-607. (*HortTechnology Top 10 Articles Read in July 2010*)
- 19) French-Monar, R., **Rodrigues, F. A.**, Korndorfer, G. H., and Datnoff, L. E. 2010. Silicon suppresses Phytophthora blight development on bell pepper. J. Phytopathol. 158:554-550.
- 20) Almany, G. R., De Arruda, M. P., Arthofer, W., ...Datnoff, L. E.,...et al. 2009. Permanent Genetic Resources added to Molecular Ecology Resources Database 1 May 2009-31 July 2009. Molecular Ecol. Res. 9:1460-1559.
- 21) **Rasmann, C.**, Graham, J. H., Chellemi, D. O., Datnoff, L. E., and Larsen, J. 2009. Resilient populations of root fungi occur within five tomato production systems in southeast Florida. Applied Soil Ecol. 43:22-31.
- 22) **Brunings, A. M.**, Datnoff, L. E., Palmateer, A. J., Locke, J. C. and Krause, C. R. 2009. Exserohilum leaf spot on tigergrass. Online. Plant Health Prog. doi:10.1094/PHP-2009-12XX-01-RS.
- 23) **Nanayakkara, U. N.**, Uddin, W. and Datnoff, L. E. 2009. Soil silicon amendment for managing gray leaf spot of perennial ryegrass turf on golf courses in Pennsylvania. Canadian J. Plant Pathol. 31:1-12.
- 24) **Brunings, A. M.**, Datnoff, L. E., Ma, J. F., Mitani, N., Nagamura, Y., Rathinasabapathi, B., and Kirst, K. 2009. Differential gene expression of rice in responses to silicon and the rice blast fungus *Magnaporthe oryzae*. Annals App. Biol. 155:161-170.

- 25) Schlub, R. L., Smith L. J., Datnoff, L. E. And Pernezny, K. L. 2009. An overview of target spot of tomato caused by *Corynespora cassiicola*. ISHS Acta Hort. 808:51-56.
- 26) **Smith, L. J.**, Datnoff, L. E., Rollings, J. A., Pernezny, K. L., Scott, J. and Schlub, R. L. 2009. Phylogenetic and pathogenic characterization of *Corynespora cassiicola* isolates. ISHS Acta. Hort. 808:25-28.
- 27) **Dixon, L. J.**, Schlub, R. L., Pernezny, K., and Datnoff, L. E. 2009. Host specialization and phylogenetic diversity of *Corynespora cassiicola*. Phytopathology 99:1015-1027.
- 28) **Brecht, M.**, Stiles, C., and Datnoff, L. 2009. Effect of high temperature stress and silicon fertilization on pathogenicity of *Bipolaris cynodontis* and *Curvularia lunata* on Floradwarf bermudagrass. International Turfgrass Soc. Res. J. Vol. 11:165-180.
- 29) Dallagnol, L.J., Rodrigues, F. A., Mielli, M. V. B., Ma, J. F., and Datnoff, L. E. 2009. Defective active silicon uptake affects some components of rice resistance to brown spot. Phytopathology 99:116-121.
- 30) **Flor, N.**, Harmon, P., Datnoff, L., Raid, R., and Nagata, R. 2008. First report of brown ring patch caused by *Waitea circinata* var. *circinata* on *Poa trivialis* in Florida. Plant Dis. 92:1586.
- 31) Frantz, J. M., Locke, J. C., Datnoff, L. E., Omer, M., Widrig, A., Sturtz, D., Horst, L., and Krause, C. R. 2008. Detection and quantification of silicon in floricultural crops utilizing three distinct analytical methods. Comm. Soil and Plant Analysis 39:2734-2751.
- 32) **Torres, C.**, Peres, N., Datnoff, L., Simonne, E., and Deng, Z. 2008. Evaluation of silicon for managing powdery mildew (*Podosphaera fusca*) on gerbera daisy (*Gerbera jamesonii*). J. Plant Nutr. 31:2131-2144.
- 33) **Harp, T. L.**, Pernezny, K., Lewis Ivey, M. L., Miller, S. A., Kuhn, P. J., and Datnoff, L. 2008. The etiology of recent pepper anthracnose outbreaks in Florida. Crop Prot. 27:1380-1384.
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- 49) Pernezny, K., L. Datnoff, M. Sommerfeld, and R. Lentini. 1994. Brown stem in Florida Celery. Ext. Plant Pathol. Rep. No. PP-126. 2pp.
- 50) Datnoff, L. E. and R. T. Nagata. 1993. Corky root of lettuce. Citrus and Vegetable Magazine pp. 22-24.
- 51) Raid, R. N. and L. E. Datnoff. 1993. Downy mildew of lettuce. Citrus and Vegetable Magazine pp. 36-38.

- 52) Schueneman, T. J., L. E. Datnoff, R. T. Nagata, and J. Alvarez. Reduce corky root disease with cultural practices. *Citrus & Vegetable Magazine* (1992) 37-38.
- 53) Datnoff, L. E. and C. W. Deren. Major diseases of rice in Florida, (1992) CD-ROM PP49.
- 54) Datnoff, L. E. and R. T. Nagata. Corky root of lettuce, (1992) CD-ROM PP50.
- 55) Lambe, R. C., L. Datnoff, and T. Kroll. Control of clubroot. *American Vegetable Grower and Greenhouse Grower*. No. 9 (1980) 36.
- 56) Lambe, R. C., L. Datnoff, and T. Kroll. Clubroot of Cabbage. VPI & SU Extension Division. *Plant Disease Control Notes*. (1980) pp. 1-4.

MISCELLANEOUS (NEWSPAPER, RADIO, YOUTUBE AND OTHERS - 1997-2016):

- 1) Crops and Chemicals European Conference interview about the effects of silicon in plants, 2016, <https://www.youtube.com/watch?v=WYQsluHAbV8>
- 2) The history of the International conference on silicon in agriculture, 2014, <https://vimeo.com/104163750> , where I explain how the silicon in agriculture conference series began.
- 3) The benefits of soluble silicon for plant health and growth, 2014, <https://www.youtube.com/watch?v=MCZWZ5FsRhw>, where I explain about the role of this element in enhancing plant health.
- 4) The Silicon Conundrum, interview published by Acres, USA, *The Voice of Eco-Agriculture*, Vol. 43, No. 7:42-49, 2013, where I explain the value of this overlooked element in agriculture.
- 5) LSU Tiger Television, Newsbeat, 2012. Interviewed about why I received the APS International Service Award for Silicon in Agriculture.
- 6) New Ag International. 2009. Silicon Products: At the border between plant nutrition and plant protection. March Issue, Pgs. 32-38. This article summarizes, with the help of L. Datnoff, the current main developments in silicon science and technology around the world.
- 7) Cockrell, J. 2003. Rice Diseases Around the World. *Texas Rice*, June, Vol. III Number 4. This article discusses many rice diseases and their management especially the University of Florida-IFAS' role using silicon for suppressing disease.
- 8) Nichols, Randy, 2002. Silicon for Turf? *ATA Turf Times*, page 15. This article discusses the positive effects of silicon and its potential use for turf.
- 9) Anonymous. 2001. New book presents papers from UF's international silicon conference. p. 1. IN: *International FOCUS*, University of Florida-IFAS, Vol. 12, No. 5. This article discusses the international cooperation between University of Florida and the Universidade de Uberlandia, the first international silicon conference they organized, and the publication of their book by Elsevier Science entitled 'Silicon in Agriculture'.
- 10) Woods, Chuck. 2000. Silicon gets the respect it deserves. p. 34. IN: *IMPACT*, The University of Florida Institute of Food and Agricultural Sciences, Vol. 15, No. 3. This article discusses the

role of silicon for plant growth, disease control, worldwide importance, etc and highlights the research accomplishments of L. E. Datnoff and his colleagues.

- 11) Tasker, Georgia. 2000. Silicon strengthens plants, gardeners insist. Miami Herald Newspaper, July, p. 4K. This article discusses with L. E. Datnoff and others about the use of silicon for strengthening plant growth and development and disease protection.
- 12) Ragen, Russ. 1999. Role of silicon for disease control. Southeast Ag Net/Radio talk show, November. Interview with L. E. Datnoff about using silicon for disease control.
- 13) Garner, Frank. 1999. The silicon mystery: What will be the future role of the element that acts like a fertilizer and fungicide? Florida Grower, August pp. 31-32. This article discussed the use of silicon for disease control based on interviews with L. E. Datnoff, G. H. Snyder and C. W. Deren, and the Silicon in Agriculture Conference.
- 14) Bryan, Susannah. 1999. Silicon shows promise as alternative pesticide: Element fights disease in crops but scientists don't know why. Sun-Sentinel Newspaper, South Florida, August, p. 28. This article discussed the use of silicon for managing plant diseases based on an interview with L. E. Datnoff.
- 15) Beauchamp, Sylvia. 1997. Rice Industry and Consumers Reap Benefits of Adding Silicon in Soils, UF/IFAS Educational Media & Services News Release, November 21. This article discussed the impact of L. E. Datnoff's research using silicon for plant diseases control in the Everglades Agricultural Area and its potential for use in other parts of the world.

CREATIVE WORKS: 2006 Registration of FloraVerde, St. Augustinegrass cultivar
2007 Registration of NUF-76, St. Augustinegrass cultivar

INVITATIONS TO PRESENT SEMINARS, SCIENTIFIC PAPERS AND KEYNOTE ADDRESS:

- 1) *Challenges for the use of beneficial nutrients in agriculture*, 26th International Symposium of the Scientific Centre for Fertilizers (CIEC), Braunschweig, Germany, 5 September 2019.
- 2) *El rol de silicio en el estres biotico y abiotico*, Primer Congreso Internacional de Fisiologia, Nutricion y Proteccion Vegetal, La Universidad Nacional de Agricultura, y El Instituto Hondureno del Café, Catacamas, Olancho, Honduras, 16 May 2019
- 3) *Silicon's role in abiotic and biotic plant stress*, Crops, Soil and Environmental Sciences, Auburn University, 2 April 2019
- 4) *Trace elements and beneficial elements, challenges for plant nutrition and fertilization for plant health*, 17th World Fertilizer Congress of the International Scientific Centre of Fertilizers, Shenyang, P. R. China, 3-7 September, 2018
- 5) *Challenges for use of Silicon in Agriculture*, Compass Minerals, Stilwell, KS, 15 March, 2018
- 6) *Why is silicon still not used routinely for managing plant health and enhancing plant growth under greenhouse and field conditions?* VII International Silicon in Agriculture Conference,

Bangalore, India, 24-28 October, 2017

- 7) *Is silicon for plant health a biostimulant, fertilizer or plant protectant?*, LSU Department of Plant Pathology & Crop Physiology, Seminar Series, 8 March, 2017
- 8) *Influence of mineral nutrition on plant disease resistance*, 9th National Avocado Congress, Uruapan, Michoacan, Mexico, 7-9 December, 2016
- 9) *Contribution of mineral nutrition to plant disease resistance*, FERTBIO 2016 “Rumo Aos Novos Desafios”, Goiania, Go, Brazil, 16-20 October.
- 10) *Silicon in agriculture and its potential in plant disease protection*, SioTex, San Marcos, TX, 29 September, 2016.
- 11) *Is silicon for plant health a biostimulant, fertilizer or plant protectant?* Crops & Chemicals USA, Biostimulants Conference, Raleigh, NC, 19-21 July 2016.
- 12) *Silicon and Plant Diseases*, Consejo Superior de Investigaciones Cientificas-Instituto de Agricultura Sostenible, Cordoba, Spain, 20 May 2016.
- 13) *Silicon fertilizers for plant disease protection*, FertiBertia, Universidad de Seville, Seville, Spain, 17 May 2016.
- 14) *Silicon fertilizers for plant disease protection*, Julius Kuhn-Institute of Crop and Soil Science, Braunschweig, Germany, 12 February 2016.
- 15) *Is silicon for plant health a biostimulant, fertilizer or plant protectant?* C&C Europe, Crops and Chemicals’ Biostimulants and Plant Growth Conference, Berlin, Germany, 10-11 February 2016.
- 16) *Communications in Plant Pathology*, Academic Unit Leaders Forum, American Phytopathological Society Annual Meeting, Pasadena, CA, 4 August 2015.
- 17) *Role of silicon in abiotic and biotic stress reduction*, Cosmocel, Monterrey, Mexico, 19 January 2015.
- 18) *Effect of Silicon on Biotic Stress*, National Organic Standards Board Meeting, Louisville, KY, 28-30 October 2014. **[Potassium silicate was up for a 5 year review for use in organic systems. Based on my presentation, the Board approved its use for another 5 years].**
- 19) *Silicon fertilizers for plant disease protection*, 16th World Fertilizer Congress of CIEC, Technological Innovation for a Sustainable Tropical Agriculture, 20-24 October, Rio de Janeiro, RJ, Brazil 2014.
- 20) *Use of silicon for the management of plant diseases* at the V National and IV International Symposium of Plant Pathogenic Bacteria, Guadalajara, Jalisco, Mexico, 22-24 September 2014.
- 21) *Silicio: su rol en la nutricion de las plantas y su efecto para inducer Resistencia frente a estres biotico y abiotico* at the Conferencia Redagrica, Santiago, Chile, 2-3 July 2014.
- 22) *Relacion entre nutricion mineral y las enfermedades de las plantas* at the Conferencia Redagrica, Santiago, Chile, 2-3 July 2014.

- 23) *Silicon: Revisiting its role in plant nutrition, biotic and abiotic stress reduction* at the 12th New Ag International Conference & Exhibition, Warsaw, Poland, 26-28 March 2014.
- 24) *Silicon, biotic stress and its status in the United States*, First International Symposium on Trends and Challenges of Tropical Agriculture: The ecophysiological and sanitary benefits of silicon, Universidad Industrial de Santander and Agromil, Bogota, Colombia, 27-29 November 2013.
- 25) *Silicon and Biotic Stress*, Associations of Plant Pathology and Soil Science; San Marcos de Tarrazu, Guacimo, San Jose, Grecia and Quepos, Costa Rica, 5-13 November 2013.
- 26) *Louisiana Agriculture and the LSU AgCenter*, International Forum on Processes and Services of Wetland Ecosystems between IGA-CAS, LSU and the LSU AgCenter, Changchun, China, 28 July-4 August 2013.
- 27) *Silicon and Biotic Stress: Suppressing Plant Diseases*, 34th Symposium on pesticide formulation and delivery systems: Translating basic science into products, sponsored by ASTM committee E35 on Pesticides, antimicrobials, and alternative control agents, Jacksonville, FL, 22-24 October 2013.
- 28) *Mineral Nutrition and Plant Disease Suppression*, Brandt Co., Springfield, IL, 12 December 2012.
- 29) *Silicon and Biotic Stress: Suppressing Plant Diseases*, S08 Nutrient Management & Soil & Plant Analysis, Soil Science Society of America, Cincinnati, OH, 23 October 2012.
- 30) *Silicon and biotic stress* in the Department of Plant Sciences, UC-Davis graduate student seminar series, 3 November 2011.
- 31) *Silicon and biotic stress* at the 5th International Silicon in Agriculture Conference, Beijing, China, 13-18 September 2011.
- 32) *The importance of mineral nutrition in suppressing plant diseases* at the Congreso de Nutricion y Fisiologia Vegetal Aplicada, Guadalajara, Mexico, 21-23 July 2011.
- 33) *Silicon in the life, performance and health of plants* at the Congreso de Nutricion y Fisiologia Vegetal Aplicada, Guadalajara, Mexico, 21-23 July 2011.
- 34) *Silicon in the life, performance and health of plants* to students at Zamorano University, Honduras, 27 July 2011.
- 35) *Silicon in the life, performance and health of plants*, Department of Plant and Soil Science, University of Vermont, Burlington, 24 February 2011.
- 36) “*Differential gene expression of rice in response to silicon and infection by Magnaporthe oryzae*”, V Simposio Brasileiro Sobre Silicio na Agricultura, 16-18 August, 2010, Federal Universidade de Vicosa, Vicosa, MG, Brazil.

- 37) *"The role of mineral nutrition in IPM for suppressing plant diseases"*, The 8th New Ag International Conference and Exhibition, 24-26 March 2010, Miami, Florida.
- 38) *"The role of silicon in the performance and health of different crops"*, Indo-US Workshop on Silicon in Agriculture, 25-27 February 2010, Bangalore, India.
- 39) *"Understanding the mechanisms of silicon mediated resistance in rice"*, Indo-US Workshop on Silicon in Agriculture, 25-27 February 2010, Bangalore, India.
- 40) *Silicon in the life, performance and health of plants*, Department of Plant, Soil, and Insect Science, 6 August 2009, University of Massachusetts, Amherst.
- 41) *"The Benefits of Silicon in Turf"*, Facultad de Ciencias Agronomicas, Escuela de Postgrado, Universidad de Chile, Santiago, Chile, 23 July 2009.
- 42) *The role of silicon in enhancing host plant resistance and reducing fungicide applications*, IPM Symposium, Portland, OR, 24-26 March 2009.
- 43) *Influence of soluble and insoluble silicon on rice blast development*, IV Silicon in Agriculture Conference, South Africa, 26-31 October 2008.
- 44) *Silicon in the life, performance and health of plants* for the symposium entitled Mineral Nutrition and Plant Disease, NED-APS, Newport, RI, 8-10 October 2008.
- 45) *Silicon in the life, performance and health of plants*, Plant Nutrient Management Workshop, ASHS Annual Conference, Orlando, FL, 21-24 July 2008.
- 46) *"Insights on mechanism of silicon mediated disease resistance in rice"*, Agronomy Department, Federal Universidade de Uberlandia, Minas Gerais; Federal Universidade de Vicosa, Minas Geras and EMPRAPA, Goiana, Goias, 15, 17 and 21 January 2008, respectively.
- 47) *Silicon in the life, performance and health of plants*, National Organic Standards Board Meeting, Washington, DC, 27- 30 November 2007 [***This lead to the board approving the use of potassium silicate for managing plant diseases in US organic farming***].
- 48) *"Insights on using silicon for suppressing plant diseases"*, Department of Plant Pathology, Laval University, Quebec, Canada, 2 November 2007.
- 49) *"Benefits of silicon in the life, performance and health of plants"*, Botany Department, University of Florida, Gainesville, 18 April 2007.
- 50) *"Benefits of silicon in the life, performance and health of plants"*, Conn. Agric. Exp. Station, New Haven, CT, 13 April 2007.
- 51) *"Effect of potassium on plant disease"* IPI Open Forum on Potassium Research in Central Europe, Budapest, Hungary, 22 March 2007.
- 52) *"Silicon in the life, performance and health of plants"*, 5th New Ag International Conference & Exhibition Programme, Budapest, Hungary, 21-23 March 2007.

- 53) *Development of an analytical procedure for analysis of soluble silicon in fertilizer*, AAPFCO, Dallas, TX, 17-20 February 2007.
- 54) *“Benefits of silicon in turf”*, 18th Annual SportsTurf Conference & Exhibition, San Antonio, TX, 17-20 January 2007.
- 55) *“Development of an analytical procedure for analysis of soluble silicon”*, 120th AOAC International Annual Meeting & Exposition, Minneapolis, MN, 19 September 2006.
- 56) *“Role of silicon in plant disease suppression and management”* to the Institute of Bioresources, Okayama University, Kurashiki, Japan, 13 July 2006.
- 57) *“The role of silicon in improving plant quality and suppressing plant disease”*, Fertilizer Technical Diffusion Section, Fertilizer and Pesticides Department, Tokyo, Japan, 30 May 2006.
- 58) *The effects of silicon on components of host plant resistance*, Workshop on Silicon in Plants, Gebunkan, Kurashiki, Japan, 25 May 2006.
- 59) *“Silicon effects on components of host resistance: an overview and implications for integrated disease management”*, III Silicon in Agriculture Conference, Uberlandia, MG, Brazil, 23 October, 2005.
- 60) *“The role of silicon in suppressing foliar disease in warm-season turf”*, 10th International Turfgrass Research Conference, Llandudno, Wales, UK, July, 2005
- 61) *“The role of silicon in plant disease resistance”*, Department of Soils and Agricultural Chemistry, University of Agricultural Sciences, Bangalore, India, 24 May 2005.
- 62) *“The influence of silicon on disease resistance in plants”*, Department of Plant Biology and Pathology, Rutgers University, 31 March to 1 April, 2005.
- 63) *“The role of silicon in plant disease suppression”*, USDA-ARS, Beltsville, MD, 10 March 2005.
- 64) *“The role of silicon in plant disease suppression”*, Chinese Academy of Sciences, Beijing, China, 2 December 2004.
- 65) *“Role of silicon in suppressing diseases in rice and turf”*, CREC, Lake Alfred, 15 Oct. 2004.
- 66) *“The role of silicon in plant disease defense”*, USDA-ARS Greenhouse Production Group and the Department of Earth, Ecological and Environmental Sciences, University of Toledo, OH, 29 September, 2004.
- 67) *“Silicon in Agriculture”*, American Association for Plant Food Control Officials, Madison, WI, 3 August, 2004.
- 68) *“Turf disease management in Florida”*, Plant Pathology Department, University of Florida, 30 March 2004.

- 69) “*Role of silicon in suppressing turf diseases*”, Simplot Partners Annual Recertification Seminar, Wachusett Country Club, West Boylston, MA, 6 November, 2003.
- 70) ‘*Silicon fertilization for rice disease management*’, XXXVI Brazilian Congress of Phytopathology, Uberlandia, Minas Gerais, Brazil, 6 August, 2003
- 71) ‘*The role of silicon in suppressing gray leaf spot development and promoting plant growth in St. Augustinegrass*’, Department of Plant Pathology, University of Wisconsin-Madison, 16 May 2003.
- 72) “*The role of silicon in suppression of plant diseases*”, USDA-ARS, University of California, Davis, CA, 17 March 2003.
- 73) “*Silicon management of diseases in irrigated and upland rice ecosystems*”, Shonai Rice Field Forum, Tokyo Dai-ichi Hotel, Tsuruoka, Japan, 26 August 2002.
- 74) “*Role of silicon in turfgrass disease management*”, 2nd Silicon in Agriculture Conference, Tsuruoka, Yamagata, Japan, 22-26 August, 2002.
- 75) “*How silicon affects disease: Florida experience*”, Silicon in Agriculture Symposium, Uberaba, Minas Gerais, Brazil, 6 August, 2002. This symposium was sponsored by Universidade de Uberlandia, Agronelli and RECMIX
- 76) “*Beneficial effects of silicon for promoting plant growth and controlling plant diseases in turfgrass*”, 42 Congresso Brasileiro de Olericultura and the 11 Congresso Latino Americano de Horticultura, Uberlandia, Minas Gerias, Brazil, 28 July to 2 August, 2002.
- 77) “*Silicon in Agriculture*”, Penn State University, University Park, PA, 24 September, 2001.
- 78) “*Silicon Management and Sustainable Rice Production*” to the following institutions: EMBRAPA de Pelotas, RS; EMBRAPA de Goiania, GS; Unversidade Federal de Uberlandia, Uberlandia, MG; Unversidade Federal de Santa Maria, Rio Grande de Sul; and the Universidade Federal de Vicosa, MG, July, 2000.
- 79) “*Silicon management of diseases in rice*”, Norwegian Crop Research Institute and Kvithamar Research Centre and the Department of Botany, Norwegian University of Science and Technology, Trondheim and the Departments of Plant Pathology and Soils, Agricultural University of Norway, Olso, Feb., 2000.
- 80) “*Management of diseases in rice and St. Augustinegrass using silicon*”, Rutgers University, Cook Campus, New Brunswick, NJ, 24 May, 1999.
- 81) “*Silicon management and sustainable agricultural production*” was made in Spanish for Albright and Wilson/Rice and sugarcane producers and FHIA, San Pedro Sula, Honduras, 22 July, 1999.
- 82) “*Silicon management for disease control in rice*”, VI RENAPA, Reuniao Nacional de Pesquisa de Arroz, Conferencia III, Goiania, Goias, Brazil, March 1998.
- 83) “*Silicon management of diseases in irrigated and upland rice ecosystems*”, 31st Congresso Brasileiro de Fitopatologia, Fortaleza, Ceara, Brasil, August 1998.

- 84) "*Silicon management for disease control and enhanced yield of rice*", Coastal Research and Education Center, Clemson University, SC, June, 1998.
- 85) "*Silicon Management and Sustainable Rice Production*", Department of Crop Sciences, University of Illinois, 1996.
- 86) "*Use of Silicon for Controlling Blast and Other Rice Diseases*", Department of Botany and Plant Pathology, Purdue University, 1995.
- 87) "*Uso da Silica na Agricultura e Inducao da Resistencia a Fitopatogenos*", Departamento de Agronomia, Universidade de Uberlandia, Uberlandia, Minas Gerias, Brazil, 1995.
- 88) "*Silicon deficiency of upland rice on highly weathered savanna soils in Colombia. I. Evidence of a major yield constraint*", IX Conferencia Internacional de Arroz par a America Latin e par o Caribe e V Reuniao Nacional de Pesquisa de Arroz, Goiania, Goias, Brazil, 1994.
- 89) "*Silicon deficiency of upland rice on highly weathered savanna soils in Colombia. II. Diseases and grain quality*", IX Conferencia Internacional de Arroz par a America Latin e par o Caribe e V Reuniao Nacional de Pesquisa de Arroz, Goiania, Goias, Brazil, 1994.
- 90) "*Silicon Suppresses Disease and Increases Yield in Rice*", Empresa Brasileira de Pesquisa Agropecuaria (EMBRAPA), Centro Nacional de Pesquisa de Arroz e Feijao (ENPAF), Goiania, Goias, Brazil, 1994.
- 91) "*Silicon Fertilization as a Method of Inducing Disease Resistance in Crop Plants*", Biological Control Institute, Auburn's University's Office of the Provost, Department of Plant Pathology and Department of Agronomy and Soils, Auburn University, 1994.
- 92) "*Influence of Mineral Nutrition on Disease Development in Rice*", International Rice Research Conference, International Rice Research Institute (IRRI), Los Banos, Philippines, 1992.
- 93) "*Role of silicon in managing rice diseases*", Cuarto Taller de Evaluacion y Seleccion de Germoplasma de Arroz, sponsored by Fondo Nacional de Investigaciones Agropecuarias, International Rice Research Institute, Centro Internacional de Agricultura Tropical and Sistemas Nacionales de Investigacion en Arroz, Acarigua y Calabozo, Venezuela, 1992.
- 94) "*Disease Reduction and Yield Increases in Rice Associated with Soil Amendments of Calcium Silicate Slag*", Centro Internacional Agricultura Tropical (CIAT), Cali, Colombia, 1991.

TEACHING:

Course: Fundamentals of Plant Pathology/General Plant Pathology, PLP 3002/5005. The objective of the lecture section of the course is to introduce the student to the many different types of plant pathogens, their basic biology, examples of the types of disease they cause, and the basic principles and concepts of their development, spread and management. The laboratory section emphasizes the principles and concepts of plant pathology through demonstrations and hands-on exercises using living organisms and prepared specimens. Graduate and DPM students are required to write a paper and

prepare a 25 minute oral power point presentation on plant disease control, i. e. biological, cultural or chemical.

Course: Mineral Nutrition and Plant Disease, Spring Colloquium PLP 6921, Jan.-Apr., 2005

Guest lecturer: Silicon in Agriculture, Nutrition of Horticultural Crops, HOS 3420
Turf Disease Diagnosis, Plant Disease Diagnosis PLP 4290/6291, 25 Oct. 2004
Plant Disease Control - PLP 2316, 22 February 2007

GRADUATE, DOCTOR OF PLANT MEDICINE (DPM) AND SHORT-TERM SCHOLAR STUDENTS (1994 to present):

University of Florida/IFAS

From 1994-2009, I chaired, co-chaired or been a committee member of M.S., Ph.D., D.P.M. or short-term scholar students. In all cases, financial support was actively sought from University of Florida, commodity groups, granting agencies and private companies.

- Kenneth W. Seebold, PhD., 1994-1998
- Fabricio A. Rodrigues, PhD, 2000-2004
- Matthew Brecht, PhD, 2002-2005
- Asha Bruning, PhD, 2005-2008
- Tyler Harp, PhD, 2004-2008
- Linley Smith, PhD, 2004-2008
- Francis Tigsby, PhD, 2004-2007
- Cheng-Hua Huang, PhD, 2006-2009
- Jean Marie Mitchell, PhD, 2005-2009
- Guilherme Buck, PhD, 2006-2007, (sandwich program with Brazil)
- Mustafa Ojonuba Jibrin, PhD, 2015-present
- Ernane Lemes, MS, 2006-2009
- Amanda Watson, MS, 2006-2008
- Norma Flor Payan, MS, 2005-2009
- Catalina Torres, MS, 2005-2007
- Matthew Brecht, MS, 1999-2002
- Christopher Rasmann, MS, 2004-2006
- Brandy Williams, MS., 2003-2005
- Adriana Espinosa, DPM, 2005-2009
- Stephen McLean, DPM, 2005-2009
- Eduardo Canova, DPM, 2005-2009
- Jesse Palanchar, DPM, 2006-2009
- Fabricio A. Rodrigues, Brazil, short term scholar, Feb.-July, 1997
- Luis Renato Gomes, Brazil, short term scholar, Sept 2000-Mar 2001
- Deborah Liddell, Great Britain, short term scholar, Sept 2001-Aug 2002
- Caroline de Bois, Brazil, short term scholar, April-October, 2002
- Ana Cristinia Pereira, Brazil, short term scholar, Sept. 2003-Feb. 2004

Louisiana State University/Louisiana State University Agricultural Center

Since 2009 to present, I have served on several committees in the Department of Plant Pathology & Crop Physiology, the Department of Entomology, and the School of Plant, Soil & Environmental Sciences.

- Nicole Ward, PhD, 2009-2011
- Jaspreet Sidhu, PhD, 2009-2012
- Washington da Silva, MS, 2010-2012
- Maria Caldera, MS, 2012-2014
- Pokhrel Sanjay, MS, 2013-2017
- Brian Ward, MS/PhD, 2012-2017
- Eduardo Chagas, MS/PhD, 2013-2017
- Flavia Bastos Agostinho, PhD, 2014-2018