

JACK EDWARD REHCIGL

BUSINESS ADDRESS:

University of Florida
Gulf Coast REC
14625 CR 672
Bradenton, FL 34203
Phone: (813) 633-4111
FAX: (813) 634-0001

HOME ADDRESS:

10606 Riverbank Terrace
Bradenton, FL 34212
Phone: (941) 745-1809
email: rechcigl@ufl.edu

AREAS OF SPECIALIZATION:

Soil Fertility Fertilizers Water Quality Industrial By-products
Forages Organic Wastes Plant Nutrition Soil Quality

EDUCATIONAL BACKGROUND:

Institution	Discipline	Degree	Date
Virginia Polytechnic Institute & State University	Soil Science	Ph.D.	1986
Virginia Polytechnic Institute & State University	Soil Science	M.S.	1983
University of Delaware	Plant Science	B.S.	1982

ADMINISTRATIVE TRAINING:

Harvard Graduate School of Education, Administrative Training for Directors, Chairs and Deans, Cambridge, MA, June 16-28, 2001.

State University System Department Chairpersons Workshop, Institute for Academic Leadership,

- A. Palm Coast, Fla., June, 2002.
- B. Howey-in-the-Hills, Fla., October, 2000.

U.S.D.A. Administrators Workshop, University of Nebraska-Lincoln, May 30-June 2, 2000.

ESCOP/ACOP Leadership Development Program, Class 10,

- A. Gainesville, Fla., internship in Dean's Office, September, 2000-July, 2001.
- B. Washington D.C., June, 2001.
- C. University Place, Indianapolis, Ind., September, 2000.

LEAD IFAS, University of Florida Administrative Training Program, FFA Leadership Training Center, Haines City, FL

- A. Leadership Strategies, October, 2001.
- B. Personnel Management, March, 2001.
- C. EXCEL Program on Management and Leadership, August, 2000.
- D. Managerial Assessment of Proficiency (MAP), FL, April, 2000.

University of Florida Supervisory Training, Gainesville, Fla., 1998-1999.

EMPLOYMENT:

Position	Location	Date
Professor and Director	University of Florida, Gulf Coast Research & Education Center, Balm, Fla.	2001-Present
Research Foundation Professor and Associate Director	University of Florida, Gulf Coast Research & Education Center, Bradenton, Fla.	2000- 2001
Research Foundation Professor	University of Florida, Range Cattle Research and Education Center, Ona, Fla.	1999-2000
Professor	University of Florida, Range Cattle Research and Education Center, Ona, Fla.	1996-2000
Associate Professor	University of Florida, Range Cattle Research and Education Center, Ona, Fla.	1991-1996
Assistant Professor	University of Florida, Range Cattle Research and Education Center, Ona, Fla.	1986-1991
Research Assistant	Virginia Polytechnic Institute and State University, Agronomy Department, Blacksburg, Va.	1982-1986
Research Assistant	University of Delaware, Plant Science Department, Newark, Del.	1979-1982

RESEARCH GRANTS AND CONTRACTS:

Effective Dates	Value	Funding Agency	Title	Role
2006-2007	\$349,994	Florida Department of Agriculture and Consumer Services	Developing cost effective sustainable forage production and fertilization strategies for remediation of P enriched soils in South Florida	Co-principal investigator
2004-2007	\$120,000	USDA/CSREES Tropical/Subtropical Agriculture-Section 406-Caribbean Basin Group	Management of dairy effluent/manure for forage production and their effects on nutrient leaching/runoff in the tropics.	Co-principal investigator
2004-2007	\$130,000	Hillsborough County Government Phosphate Trust Fund	Utilization of biosolids on reclaimed land	Co-principal investigator
2004-2006	\$419,580	Florida Department of Agriculture and Consumer Services	Crop phyto-remediation of phosphorus-enriched soils in the Lake Okeechobee region	Co-principal investigator
2002-2006	\$ 24,000	Honeywell Corporation	Influence of nitrogen sources on various pasture grasses	Co-principal investigator
2001-2002	\$1,350,000	Florida Department of Agriculture and Consumer Services	IFAS Gulf Coast Research and Education Center-Dover expansion project	Co-principal investigator
1999-2002	\$104,030	USDA/CSREES Tropical/Subtropical Agriculture-Section 406-Caribbean Basin Group	Fertilization of tropical legumes for seed production	Co-principal investigator
1999-2000	\$5,000	U.S.D.A. Smith-Lever Water Quality Extension	Utilization of municipal wastes on pasture land	Co-principal investigator

1998-2002	\$574,000	South Florida Water Management District	Evaluation of limestone and gypsum for reducing phosphorus leaching and runoff from beef cattle pastures	Principal investigator
1998-2001	\$ 37,000	Florida Department of Agriculture and Consumer Services	Impact of inorganic and organic fertilizer application rates on bahiagrass production, and soil and water quality under grazing conditions	Co-principal investigator
1998-2001	\$35,000	Allied Fibers and Plastics Corporation	Influence of nitrogen sources and rates on cattle weight gains and bahiagrass production	Co-principal investigator
1997-1999	\$12,000	Vigiron, Inc.	Influence of iron humate on pasture grasses grown in Florida	Principal investigator
1995-1998	\$14,000	Foundation for Agronomic Research	Influence of nitrogen sources and rates on limpograss and water quality	Principal investigator
1995-1997	\$15,000	Institute for Biomass Programs, Energy Extension Service, University of Florida	Municipal solid waste compost application to ryegrass pasture	Principal investigator
1995-1998	\$593,751	Florida Institute of Phosphate Research	Predicting the long term impact of high rates of phosphogypsum applications on radioactivity in soil, groundwater, and bahiagrass forage, and on radon emissions	Principal investigator
1994-1997	\$84,000	Biogro Systems	Sludge effects on forage and the environment	Principal investigator

1994	\$10,000	U.S.D.A. Research and Scientific Exchanges Division/University of the Philippines	Utilization of phosphogypsum for forage and crop productions and associate environmental concerns.	Principal investigator
1992-1996	\$533,043	Florida Institute of Phosphate Research	Impact of phosphogypsum on radon emissions and radioactivity, heavy metals in soil, water, and bahiagrass	Principal investigator
1992-1996	\$130,000	U.S.D.A. Competitive Grants Program	Modeling the fate and transport of nitrogen fertilizer, carbaryl and bromide applied to bahiagrass	Co-principal investigator
1991-1996	\$25,000	Allied Fibers and Plastics Corporation	Influence of nitrogen sources and rates on water quality	Principal investigator
1990-1993	\$335,000	Florida Institute of Phosphate Research	Influence of phosphogypsum on the environment and forage yield and quality in a typical Florida soil	Principal investigator
1989-1992	\$30,000	Allied Fibers and Plastics Corporation	Influence of ammonium sulfate and ammonium nitrate fertilization on bahiagrass and yearling cattle.	Co-principal investigator
1988-1989	\$10,000	Florida Institute of Phosphate Research	Influence of K, micronutrients and pH on alfalfa grown on reclaimed soil	Principal investigator
1988-1989	\$10,000	C.E.M. Corporation	Microwave digestion bombs to digest plant tissue for tissue analysis	Principal investigator
1987-1990	\$292,000	South Florida Water Management District	Development of fertilization practices for beef cattle pastures to minimize nutrient loss in runoff	Principal investigator

1987-1990	\$20,000	Allied Fibers and Plastics Corporation	Response of bahiagrass (<i>Paspalum notatum</i>) to various rates and sources of nitrogen and sulfur	Principal investigator
1984-1986	\$30,000	Tennessee Valley Authority (TVA)	Influence of toxic factors in acid soils on alfalfa	Co-principal investigator
1982-1983	\$20,000	Virginia Agricultural Foundation	Effect of plowsole placement of lime and fertilizer on alfalfa	Co-principal investigator

TEACHING/TRAINING:

Visiting Professors: 10
Post Doctoral Fellows: 11
M.S. and Ph.D. Students: 8

Honors:

Fellow, Czechoslovak Society of Arts and Sciences, 2003.
Honorary Professor, Czech Agricultural University, Prague, 1999.
Research Foundation Professor, University of Florida, 1999.
Presidential Citation for Outstanding Achievement Award, University of Delaware, 1999.
Fellow, Soil Science Society of America, 1999.
Interdisciplinary Extension Team Award, University of Florida/IFAS, 1999.
Fellow, American Society of Agronomy, 1998.
Research Award, University of Philippines, 1994.
Research Honor Award, University of Florida, 1992.
Research Achievement Award, University of Florida, 1991.
Research Award, Sigma Xi, 1982.
Research Award, University of Delaware, 1981.

Listings in Professional Biographical Directory:

American Men and Woman of Science, 1994-Present.
Marquis's Who's Who in the World, 1994-Present.
Marquis's Who's Who in America, 1994-Present.
Marquis's Who's Who in Science and Engineering, 1992-Present.

Honorary Society Memberships:

Honorary Society of Gamma Sigma Delta, 1990-Present.
Honorary Society of Sigma Xi, 1981-Present.
Honorary Society of Gamma Beta Phi, 1981-Present.
Honorary Society of Phi Sigma, 1981-Present.

Professional Societies:

American Society for Horticultural Science, 2001-Present.
Research Center Administrators Society, 2000-Present.
International Society of Soil Science, 1993-Present.
Florida Fertilizer & Agrichemical Association, 1987-Present.
Soil and Crop Science Society of Florida, 1986-Present.
Soil Science Society of America, 1984-Present.
American Society of Agronomy, 1984-Present.
Czechoslovak Society of Arts and Sciences, 1984-Present.

Professional Society Committees:

Washington Agricultural Action Committee for the American Society of Agronomy, 2002-Present.
Dedication Committee for the Soil Crop Science Society Florida, 2002-Present.
Member, USDA W-170 Regional Committee, 2000-Present.
Emerging Issues in Soil Science Committee, Soil Science Society of America, 2000-Present.
ASA Monograph Committee, Tri Society, 1999-Present.
Soil Science Society of America Fellows Committee, 1999-2001.
Associate Editor for Soil Crop Science Society Florida, 1999-2000.
Board of Directors for the Soil Crop Science Society Florida, 1997-2000.
Soil Science Professional Service Award Committee, Soil Science Society of America, 1996-1997.
ASA Public Relations Committee, Tri Society, 1993-1995.
Nomination Committee for the Soil Crop Science Society Florida, 1993-1996.
Environmental Committee for the Manatee Chamber of Commerce, 1993-1995.
Partners in Education Committee for the Manatee Chamber of Commerce, 1993.
Water Quality Regulation Panel, Florida Fertilizer and Agrichemical Association, 1992.
Career, Placement and Promotion Committee, Tri Society, 1992-1994.
State Membership Committee, Soil Science Society of America, 1992-1995.
Emil Troug Soil Science Award Committee, Soil Science Society of America, 1992-1993.
Restoration of Altered Lands S-245 Regional Committee, 1991-Present.
Chairman, Site/Local Arrangements Committee, Soil Crop Science Society Florida, 1988.

Editorial Activities:

Editorial Board: International Journal of Food, Agric. and Environment, 2002-Present.
Associate Editor: Soil and Crop Science Society of Florida Proc., 1999-2000.
Associate Editor: Journal of Environmental Quality, 1993- 1997.
Editor-in-Chief: Agricultural and Environmental Book Series, Lewis Publishers, 1993- Present.

Peer Review Activities:

Member of external review panels:

USDA/ARS, Retention Review Panel for ARS Scientists, 2003.
United States-Israel Binational Science Foundation, 1999-2000.
Honeywell Corporation, Sulfur proposals, 2001-Present.
Florida Department of Agriculture & Consumer Services, Nitrate Best Management Practices Advisory Group, 1995- Present.
Florida Phosphate Council, Phosphogypsum Research and Utilization Task Force, 1995- Present.
Pacific Basin Administrative Group (PBAG), USDA special grants program for tropical and subtropical agriculture, 1994- Present.
Allied Fibers and Plastics Corporation, Research developments for ammonium sulfate, 1994-1999.
CRC Press, Inc., Book Proposal Review Committee, 1994-Present.

Competitive Grants Reviewer:

Delaware Water Resource Research Institute, 1994-Present.
Florida Recycling Institute, 1993-Present.
USDA Competitive Grants Program, 1992-Present.
Florida Institute of Phosphate Research Institute, 1991-Present.
Agency for International Development, 1990-1995.

University Governance and Service:

IFAS Farm Bureau Task Force, 2003-Present.
IFAS Extension Faculty FAS (FOCUS) Committee, 2003-Present.
Search and Screen Committee: Hillsborough County Extension Agent, 2002.
IFAS Southwest Fla. Regional Task Force on Restructuring Research Centers, 2002-Present.
CALs Off Campus Academic Programs (Distance Learning) Committee, 2000-Present.
IFAS Equador ESPOL Action Team, 2000-Present.
IFAS International Programs Manager for Czech Republic/ US projects, 2000-Present.
IFAS Vice President's Faculty Advisory Committee, 1999-2001.
IFAS Tenure, Permanent Status and Promotion Committee, 1999-2000.
Search and Screen Committee: Research Associate Dean and Exp. Director, 2006.
Search and Screen Committee: Animal Scientist, Range Cattle REC, 1998.
Search and Screen Committee: Soil Scientist, Soil and Water Science Department, 1998.
Search and Screen Committee: Agronomist, Range Cattle REC, 1996.
IFAS Review Committee: Reactions of trace metals in water and soil, 1995.
University Senate, 1995-1996.
Search and Screen Committee: Department Chair, Soil and Water Science Department, 1994.
Agro-Ecology Advisory Committee, 1993-Present.
Pasture Plant Nutrition Recommendation Work Group, 1993-Present.
IFAS Review Committee: Environmental pedology and land use investigations, 1993.
University Coordinator responsible for implementing research agreement between the Agricultural University, Prague, Czechoslovakia and the University of Florida, 1992.
Limpogloss Work Group, 1992-Present.
Tropical Legume Work Group, 1992-Present.
Cool Season Grasses Work Group, 1992-Present.
Warm Season Grasses Work Group, 1992-Present.

IFAS Review Committee: Fertilization effects on turfgrass and environment, 1992.
Chairman of Fertilizer Task Force, 1991-Present.
Chairman of Livestock and Forage Environment Task Force, 1991-Present.
IFAS Analytical Research Laboratory Advisory Committee, 1989-1992.
Search and Screen Committee: Soil Scientist, 1988.

Extension Committees:

Hillsborough County Extension Advisory Committee, 2003-Present.
Gulf Coast Research and Education Center Overall Advisory Committee, 2000-Present.
Gulf Coast Research and Education Center Vegetable Advisory Committee, 2000-Present.
Gulf Coast Research and Education Center Ornamental Advisory Committee, 2000-Present.
Gulf Coast Research and Education Center Strawberry Advisory Committee, 2000-Present.
Manatee County Extension Advisory Committee, 2000-Present.
Manatee County Farm City Committee, 2000-Present.
Manatee County Commercial Horticulture Extension Advisory Committee, 2000-Present.
Manatee County Leadership Group, 2000-Present.

Extension Field Days Coordinated:

Assisted in planning and coordination for the Dedication Ceremony, Gulf Coast Research and Education Center, Balm, Fla., April, 2005.

Assisted in planning and coordination for the Ground Breaking Ceremony, Gulf Coast Research and Education Center, Balm, Fla., October, 2005.

Assisted in planning and coordination for Strawberry Field Day, Gulf Coast Research and Education Center, Dover, Fla., November, 2005.

Assisted in planning and coordination for the Strawberry Field Day, Gulf Coast Research and Education Center, Dover, Fla., November, 2003.

Assisted in planning and coordination for Vegetable Field Day, Gulf Coast Research and Education Center, Bradenton, Fla., April, 2003.

Assisted in planning and coordination for Strawberry Field Day, Gulf Coast Research and Education Center, Dover, Fla., November, 2002.

Assisted in planning and coordination for Ornamental Field Day, Gulf Coast Research and Education Center, Bradenton, Fla., November, 2002.

Assisted in planning and coordination for Vegetable Field Day, Gulf Coast Research and Education Center, Bradenton, Fla., May, 2001.

Assisted in planning and coordination for 75th Anniversary Celebration and Field Day, Gulf Coast Research and Education Center, Bradenton, Fla., November, 2000.

Extension Presentations and Field Days:

Gulf Coast Research and Education Center. Balm, Fla., October, 2005. Research programs at the center.

Gulf Coast Research and Education Center Strawberry Water School. Dover, Fla., October, 2003. Future strawberry programs.

Okeechobee County Extension Service Water School. Okeechobee, Fla., March, 2003. Phosphorus fertilization effects on pasture grasses and water quality.

Okeechobee County Extension Service Cattle School. Okeechobee, Fla., September, 2002. Impact of phosphorus on stargrass and water quality.

Desoto County Extension Service Cattle School. Arcadia, Fla., September, 2002. Impact of phosphorus on stargrass and water quality.

Manatee County Extension Service. Bradenton, Fla., April, 2001. Soil fertility and plant nutrition: Master Gardener Training.

Manatee County Extension Service. Bradenton, Fla., April, 2000. Soil fertility and plant nutrition: Master Gardener Training.

Highlands County Extension Service Forage and Pasture Management School. Sebring, Fla., June, 1999. Soil fertility (nutrients and the soil).

Manatee County Extension Service. Bradenton, Fla., April, 1999. Soil fertility and plant nutrition: Master Gardener Training.

Range Cattle Research and Education Center Cattle and Forage Field Day. Ona, Fla., October, 1998. Value of municipal sludges as a pasture fertilizer.

Highlands County Extension Service Forage and Pasture Management School. Sebring, Fla., June, 1998. Basic soil fertility (nutrients and the soil).

Highlands County Extension Service Forage and Pasture Management School. Sebring, Fla., June, 1998. Water quality and soils (BMP's for pastures).

Manatee County Extension Service. Bradenton, Fla., April, 1998. Soil fertility and plant nutrition: Master Gardener Training.

Florida Cattlemen's Institute and Allied Trade Show. Kissimmee, Fla., January, 1998. Revised IFAS fertilization recommendations.

Range Cattle Research and Education Center Perennial Grass Pasture Field Day. Ona, Fla., May, 1997. Fertilization of perennial grasses.

Okeechobee County Extension Service Sustainable Agriculture Program. Okeechobee, Fla., September, 1997. Phosphorus budgets for pasture grasses.

Manatee County Extension Service. Bradenton, Fla., April, 1997. Soil fertility and plant nutrition: Master Gardener Training.

Manatee County Extension Service. Bradenton, Fla., March, 1997. Fertilizers: Master Gardener/ Florida Yard Advisor Training.

University of Florida Research-Extension Interface. Sebring, Fla., December, 1996. Bahiagrass recommendations.

Southwest Florida Research and Education Center Field Day. Immokalee, Fla., October, 1996. Phosphorus budgets for bahiagrass.

Manatee County Extension Service. Bradenton, Fla., April, 1996. Soil fertility and plant nutrition: Master Gardener Training.

Hillsborough County Public Schools Educational Management Group. Tampa, Fla., March, 1996. The job of a soil scientist. (Video for Florida public school system).

Manatee County Extension Service. Bradenton, Fla., March, 1996. Soil science/ fertilizers/soil tests: Master Gardener/ Florida Yard Advisor Training.

Range Cattle Research and Education Center Pasture Legume Field Day. Ona, Fla., October, 1995. Fertilization of summer legumes.

Manatee County Extension Service. Bradenton, Fla., April, 1995. Soil fertility and plant nutrition: Master Gardener Training.

SERVICE TO SCHOOLS:

Hosted various high school and middle school student groups annually to explain research programs at the Gulf Coast Research and Education Center. This program has led to a number of these students majoring in agriculture at the University of Florida.

Presented a number of programs at local middle schools and high schools regarding careers in agriculture. This has led to a number of students going to the University of Florida and majoring in agriculture.

Supervised a number of high school students on their science projects. Several of these students have subsequently won the regional division of the science fairs.

Hired a number of high school students as summer interns. During their employment these students were trained on various aspects of agricultural research.

Participated on a special committee which developed a program to educate elementary children on the importance of agriculture.

Served as science fair judge:

Manatee High School Science Fair, Bradenton, Fla., 1990-2000.

Manatee County Regional Science Fair, Bradenton, Fla., 1991-1997.

INTERNATIONAL ACTIVITIES:

Consultation:

Invited to Venezuela by the Venezuelan government's fertilizer company (PALMVIN) and the Potash and Phosphate Institute to meet with various farmer groups and industry scientists regarding the country's soil fertility problems. In addition to giving lectures and seminars, also traveled to various farms around the country to help solve specific soil fertility problems faced by individual farmers. Furthermore, instructed the Venezuelan officials on how they could use industrial waste products, such as phosphogypsum, as potential fertilizers. As a result of this visit, phosphogypsum is now being marketed to Venezuelan farmers as a fertilizer.

Invited by the Potash Phosphate Institute to Nicaragua to assist the University of Nicaragua with the modernization of their Soil and Plant Tissue Testing Laboratory. Also met with selected farmers to discuss with them their specific soil and crop problems.

Invited by Hi Fert PTY, LTD Fertilizer Company to Melbourne, Australia to advise the company on how the fertilizers could be used to reduce grass tetany of cattle in Australia. During this visit gave 15 talks around the country to various farmer groups on grass tetany and other grassland problems and ways to correct them. Also met with scientists at different government agricultural laboratories to discuss various agricultural problems of mutual interest.

Invited to meet with the Philippine Government officials to consult with them on the ways they could utilize phosphogypsum for correcting the country's soil physical and chemical problems. Subsequently toured the country, visiting research institutions on the islands, lecturing and providing advice on the use of industrial by-products in agriculture. The institutions visited included:

1. Philippine Phosphate Fertilizer Corporation, Makati, Manila
2. Central Luzon State University, Munoz
3. Department of Agriculture, Philippine Rice Research Institute, Maligaya, Munoz
4. University of Southern Philippines, Tagum, Davao
5. Central Mindanao University, Musuan, Bukidnon
6. University of the Philippines, Los Banos

Met with researchers and sales people from the following fertilizer and seed companies in Brazil to discuss future research cooperative plans between the University of Florida and their companies.

1. Ultrafertil, Fertilizer Company, Cubatao, Sao Paulo
2. Sementes Naterra, Seed Producing Company, Ribeirao Preto, Sao Paulo

Research Collaboration:

As a result of his visits throughout the Philippine Islands, a cooperative research proposal has been developed between the various research institutions and the University of Florida to evaluate the effectiveness of various industrial waste products as potential fertilizers. In addition, he met with the Rector and Dean for Research at the University of Philippines to plan a cooperative research and exchange agreement between the University of Philippines and the University of Florida. This agreement is now in the process of being signed.

Invited to Taiwan by the Republic of China under the sponsorship of U.S.D.A. to establish collaborative linkages between scientists in Taiwan and the University of Florida. During this tour he met with scientists and lectured at the following research institutions:

1. Taiwan Banana Research Institute, Chiuju Pingtung, Taiwan
2. Taichung District Agricultural Improvement Station, Taichung, Taiwan
3. Hualien District Agricultural Improvement Station, Hualien, Taiwan
4. Pingtung Polytechnic Institute, Pingtung, Taiwan
5. Taiwan Agricultural Research Institute, Taichung, Taiwan
6. National Chung-Hsing University, Taichung, Taiwan

Invited by the Brazilian Government to meet with scientists from the following research institutions to discuss potential cooperative research projects:

1. Federal University of Vicosa, Vicosa, Minas Gerais
2. Instituto Agronomico de Campinas, Campinas, Sao Paulo
3. Universidade do Estado de Sao Paulo, Botucatu, Sao Paulo
4. Universidade do Estado de Sao Paulo, Jaboticabal, Sao Paulo
5. Escola Superior de Agricultura Luiz de Queiroz, Piracicaba, Sao Paulo
6. Universidade Federal de Santa Catarina, Florianopolis, Santa Catarina

Established collaboration with the Institute of Plant Nutrition and Soil Science in Braunschweig, Germany on the development of a joint research program on sulfur requirements of crops. As a result, a joint research proposal has recently been developed for funding by the German Ministry of Agriculture in Bonn.

Organized and coordinated the agricultural section of the 16th World Congress of the Czechoslovak Society of Arts and Sciences at Charles University, Prague, Czechoslovakia. Met with scientists and science administrators at the Agricultural University of Prague, Prague-Suchdol to establish research linkages with the University of Florida. During this visit a joint research proposal was developed with Department of Soils, on soil acidity problems. As a result of his discussions with the Pro-Rector of Charles University, Dr. Zdenak Lojda and the Dean of

the Agronomy Faculty of the Agricultural University of Prague, Dr. Jiri Petr, relevant cooperative research and exchange agreements were drafted with the respective universities. Served as the coordinator for the University of Florida/IFAS - Czech Agricultural University Cooperative Agreement.

Sent to Ecuador as a member of an IFAS review team to review programs at the Escuela Superior Politecnica del Litoral (ESPOL) and to assess their potentiality for collaboration with UF in the area of research, extension and teaching. He assisted in designing the floor plans and advised on equipment purchases for a new agricultural soil and plant diagnostic laboratory for ESPOL. Subsequently he was appointed by the UF's VP to the IFAS Ecuador Task Force for the purpose of developing concrete plans and agenda for collaboration between the two institutions.

Invited to Dominican Republic by Ministry of Agriculture to sign a "Letter of Intent" between the UF and the Ministry of Agriculture and Dominican Institute for Agricultural and Forestry Research. The objective of this

Invited to Nicaragua by the Nicaraguan government to sign a "Letter of Intent" with Mr. Mario Salvo, Minister of Agriculture and Mr. Noel Palais, Executive Director of the Nicaraguan Institute for Agricultural Research (INTA, in Spanish), and to participate in the 52nd Meeting of the Central America Food Crops and Livestock Society (PCCMCA, in Spanish). Met with President of Nicaragua, to discuss the importance of finding common ground for research and extension activities between Florida and the Central American region. The "Letter of Intent" seeks to establish cooperative research efforts in vegetable crops, integrated pest control, soil and water science, and horticultural production practices, as well as enhancing the exchange of in-service training of researchers and extensionists, and graduate students.

Invited to be a guest speaker at the SVU World Congress held at Palacky University in Olomouc, Czech Republic. He participated in a panel on "How to Run a University American Style in Comparison with Czech and Slovak Universities." The panel was made up of Rectors, Provosts, University Presidents and Deans from around the world.

Signed a Cooperative Agreement between the University of Florida and the Slovak University of Agriculture in Nitra as well as the Technical University of Ostrava which was signed on the floor of the Czech Senate. These agreements will allow faculty to pursue various competitive grants of mutual interest as well as to encourage a formal student and faculty exchange between our institutions.

Completed and submitted a multi-million dollar proposal to the National Science Foundation with the collaboration between various Czech Universities.

Visiting International Scholars:

Hosted a group of administrators from the Escuela Superior Politecnica del Litoral, Ecuador, to educate them on extension programs at the University of Florida.

Government officials from Brazil and China visited to learn about research programs related to vegetable production.

Rector and Professor, Czech Agricultural University of Prague came to the University of Florida to discuss collaboration between the two universities which led to the preparation to a research proposal. On another occasion he came to the University to sign a collaborative research/teaching/extension agreement between the Czech Agricultural University and the University of Florida.

Hosted a group of professors from the Czech Agricultural University who visited the University of Florida to establish working linkages with their counterparts here

Group of 20 technical advisors and agricultural sales representatives from Australia visited him at the Range Cattle Research and Education Center Research and Education Center to learn more about fertilizer practices in the USA and to get acquainted with findings of his research on soil fertility and plant nutrition.

Group of scientists from Egypt visited his laboratory at the Range Cattle Research and Education Center to learn about forage fertilization practices used in Florida.

Visiting Scholar on an Asian Foundation Fellowship visited his laboratory at the Range Cattle Research and Education Center to learn about his research program on phosphogypsum and discuss the possibility of developing a joint research program on the environmental aspects of phosphogypsum application.

Congressman from the Philippines visited him at the Range Cattle Research and Education Center to get acquainted with his work on the soil fertility and environmental science and see how it might be applied in the Philippines.

Appointments to International Boards:

Board of Directors, University of Cukurova Mediterranean International Center for Soils and Environmental Research, Turkey, 1998-Present.

Professional Meetings Organizational Activities:

Member of planning committee for 'Agritech Educational Session and Trade Show', Strawberry Association, Plant City, FL,

August, 2004

August, 2003

August, 2002

Symposium 'Utilization of Wastes in Agriculture', American Chemical Society, Orlando, Fla.,

August, 1996

Planner/Coordinator for Field Day 'Fertilization practices for pastures to minimize nutrient loss in runoff', Okeechobee, FL,

February 1990.

August 1988

Planner/Coordinator for Field Day 'Sulfur and winter annual planting demonstration', Arcadia, FL, October 1988.

Agricultural Futures Conference, Hillsborough Community College, Plant City, Fla., June, 2002.

August.

INVITED LECTURES:

International

Slovak University of Agriculture. Nitra, Slovakia. July, 2006. Potential Teaching and Research Opportunities for Slovak Students in the USA.

World Congress of the Czechoslovak Society of Arts and Sciences. Palack University, Czech Republic. July 2005. How to Run a University American Style in Comparison with Czech and Slovak Universities.

World Congress of the Czechoslovak Society of Arts and Sciences. Olomouc, Czech Republic. July 2004. Administering University Research and Education Center.

International Cucurbitaceae 2002 Conference. Naples, Fla., December, 2002. Official Welcome Address.

International Conference of the Czech Society of Soil Science and the Soil Science Society of America. Prague, Czech Republic, September 16-20. Keynote talk: Heavy metals and organic pollutants in soils.

Ministry of Agriculture. Santo Domingo Republica Dominicana, March, 1999. Utilization of organic amendments in crop production.

Czech Agricultural University. Prague, Czech Republic, May 1999. Impact of phosphorus on water quality.

Czech Agricultural University. Prague, Czech Republic, May 1998.

- a. Phosphogypsum uses in agriculture and its impact on the environment
- b. Biosolid effects on pasture grasses and the environment

World Environment Center. Phosphogypsum Symposium for the Polish Fertilizer Industry and Departments of Environmental Protection. Lakeland, Fla., December, 1996. Agricultural uses of phosphogypsum.

American Association of Radon Scientists and Technologists. International Radon Symposium. Nashville, Tenn., September, 1995. Impact of phosphogypsum on ambient radon and radon flux.

Brazil, July, 1995. Phosphogypsum uses:

- a. XXV Brazilian Congress of Soil Science. The Federal University of Vicosa, Vicosa, Minas Gerais State.
- b. Instituto Agronomico de Campinas, Campinas, Sao Paulo
- c. Universidade do Estado de Sao Paulo, Botucatu, Sao Paulo
- d. Universidade do Estado de Sao Paulo, Jaboticabal, Sao Paulo
- e. Escola Superior de Agricultura Luiz de Queiroz, Piracicaba, Sao Paulo
- f. Universidade Federal de Santa Catarina, Florianopolis, Santa Catarina

Taiwan, Republic of China, February, 1994. Agronomic uses of phosphogypsum:

- a. Taiwan Banana Research Institute. Chiujung Pingtung
- b. Taichung District Agricultural Improvement Station, Taichung
- c. Hualien District Agricultural Improvement Station, Hualien
- d. Pingtung Polytechnic Institute, Pingtung
- e. Taiwan Agricultural Research Institute, Taichung
- f. National Chung-Hsing University. Taichung

Philippines, March, 1994. Environmental effects of phosphogypsum use:

- a. Philippine Phosphate Fertilizer Corporation, Makati, Manila
- b. Central Luzon State University, Munoz
- c. Department of Agriculture, Philippine Rice Research Institute, Maligaya
- d. University of Southern Philippines, Tagum, Davao
- e. Central Mindanao University. Musuan, Bukidnon
- f. University of the Philippines. Los Banos

Central Mindanao University. Musuan, Bukidnon, Philippines. March, 1994. Innovations in science and technology.

Potash Phosphate Institute. International Soil Testing Conference. Nicaragua, August 1993. Sulfur: Soil behavior and dynamics, soil extractants, tissue analysis, correlation and calibration.

Office of Togolais Des Phosphates. New Orleans, LA, June 1993. Uses of phosphogypsum in agriculture.

4th. Fertilizer Latin America International Conference. Palm Beach, Fla., April 1993. Phosphogypsum use in agriculture.

Hi Fert PTY, LTD. Melbourne, Australia, February 1993. Environmental considerations for fertilizers.

Potash Phosphate Institute. International Conference on Fertilizers. PALMAVEN, Caracas, Venezuela, October 1992. Agricultural use of phosphogypsum.

16th World Congress of the Czechoslovak Society of Arts and Sciences, Charles University, Prague, Czechoslovakia, June 1992. Sustainable agriculture: With emphasis on soil fertility.

3rd. Fertilizer Latin America International Conference. Palm Beach, Fla. February. 1992. Sulfur fertilization of tropical grasses.

Agricultural University. Prague, Czechoslovakia, May 1991.

- a. Phosphorus effects on forages and water quality
- b. Sulfur fertilization of forages

International Conference on Livestock in the Tropics. Gainesville, Fla., June 1989. Fertilization of stargrass.

National

Agritech Educational Session and Trade Show, Plant City, Fla., August, 2004. Programs planned for GCREC.

Agritech Educational Session and Trade Show, Plant City, Fla., September, 2003. New regional center update.

Agritech Educational Session and Trade Show, Plant City, Fla., September, 2002. GCREC update.

Agritech Educational Session and Trade Show, Plant City, Fla., September, 2001. Gulf Coast Research and Education Center programs.

American Chemical Society. New Orleans, La., August, 1999. Uses of phosphogypsum in agriculture and its impact on the environment: A 10 year study.

Sulfur Institute. Baltimore, Md., October, 1998. Sulfur Roundtable on Forages.

Soil Science Society of America. Anaheim, Calif., October, 1997. Soil and by-product characteristics that impact the beneficial use of by-products.

U.S.D.A. Beltsville, Md., May, 1997. Keynote talk on: Agronomic Benefits of Agricultural, Municipal and Industrial By-Products: An Overview.

Florida Institute of Phosphate Research Phosphogypsum Fact Finding Forum. Tallahassee, Fla., December, 1995. Agricultural uses of phosphogypsum.

Fertilizer Industry Round Table. Raleigh, N.C., October, 1995. Phosphogypsum uses in agriculture and its effects on the environment.

American Chemical Society. Chicago, Ill., August, 1995. Utilization of phosphogypsum in agriculture and its impact on the environment.

University of Minnesota. St. Paul, Minn., August, 1994. Working at the agriculture-environmental interface at the threshold of the 21st century.

University of Maryland. College Park, Md., May, 1993. Impact of fertilizer on environment.

Fertilizer Industry Round Table. Baltimore, Md., October, 1992. Use of by-product phosphogypsum on forage to supply sulfur.

Savannah River Ecology Laboratory. Aiken, S.C., September, 1992. Impact of byproduct phosphogypsum on the environment and radionuclide uptake by crops.

Appalachian Soil and Water Conservation Research Laboratory, USDA-ARS. Beckley, West VA, February 1986. Growing alfalfa on acid soils.

Southern No-Tillage Systems Conference, May 1985. No-till alfalfa grown in an acid soil.

Regional/Local

Florida Tomato Institute. September, 2004. Welcome and opening remarks.

Manatee Leadership Meeting. Gulf Coast Research and Education Center. Bradenton, Fla., November, 2003. Programs at the Gulf Coast Research and Education Center.

Bradenton Kiwanis and Rotary Clubs. Gulf Coast Research and Education Center, Bradenton, Fla., October, 2003. Research and Extension Programs at the Gulf Coast Research and Education Center.

Gulf Coast Research and Education Center Strawberry Field Day. Dover, Fla., November, 2003. Opening talk.

Gulf Coast Research and Education Center Groundbreaking. Balm, Fla., October, 2003. Vision and perspective for the new state-of-the-art Gulf Coast Research and Education Center.

Gulf Coast Research and Education Center Vegetable Field Day. Bradenton, Fla., April, 2003. Opening talk.

Gulf Coast Research and Education Center Ornamental Field Day. Bradenton, Fla., November, 2002. Opening talk.

Bradenton Kiwanis and Rotary Clubs. Gulf Coast Research and Education Center. Bradenton, Fla., October, 2002. Research Programs at the University of Florida.

Manatee Leadership Meeting. Gulf Coast Research and Education Center. Bradenton, Fla., November, 2002. Programs at the Gulf Coast Research and Education Center.

Manatee Leadership Meeting. Gulf Coast Research and Education Center. Bradenton, Fla., November, 2001. Programs at the Gulf Coast Research and Education Center.

Bradenton Kiwanis and Rotary Clubs. Gulf Coast Research and Education Center. Bradenton, Fla., October, 2001. Gulf Coast Research and Education Center Programs.

Gulf Coast Research and Education Center Vegetable Field Day. Bradenton, Fla., May, 2001. Opening talk.

Bradenton Kiwanis Club. Bradenton, Fla., February, 2000. Future programs at the Gulf Coast Research and Education Center.

Manatee Leadership Meeting. Gulf Coast Research and Education Center. Bradenton, Fla., November, 2000. Programs at the Gulf Coast Research and Education Center

Florida Association for Water Quality Control. Lakeland, Fla., June, 1999. Phosphogypsum effects on the environment.

Florida Institute of Phosphate Research Phosphate Workshop. Bartow, Fla., September, 1998. Phosphogypsum update.

Florida Organics Recyclers Association and Governors Recycling Markets Advisory. Orlando, Fla., July 1998. Roundtable on organics (keynote speaker).

Florida Institute of Phosphate Research Conference. Lakeland, Fla., October 1998. Phosphogypsum impact on the environment.

Seminole Indians. Okeechobee, Fla., November, 1997. Beneficial uses of biosolids in agriculture.

Florida Institute of Phosphate Research Phosphate Reclamation Workshop. Lakeland Fla., April, 1995. Environmental impact of phosphogypsum use in agriculture.

I.F.A.S. Council of Advisors. University of Florida. November, 1994. Phosphogypsum uses in agriculture and its effects on the environment.

Allied Chemical Company. Nitrogen Seminar. Lake Wales, Fla., March, 1994. Nitrogen nutrition.

Florida Institute of Engineering for Sustainable Development Phosphate Conference. Lakeland Fla., October, 1993. Phosphogypsum use in agriculture and its effects on the environment.

South Florida Water Management District. Workshop on Phosphorus Retention in Okeechobee Basin. West Palm Beach Fla., June, 1993. Fate of phosphorus on bahiagrass.

Diamond R Fertilizer. Lakeland, Fla., January, 1993. Pasture fertilization.

Douglas Fertilizer. Lake Placid, Fla., April, 1990. Bahiagrass sulfur and nitrogen research.

Florida Favorite Fertilizer. Sebring, Fla., April, 1990. Bahiagrass sulfur and nitrogen research.

Florida Fertilizer Conference. La Belle, Fla., November, 1988. Sulfur research on pastures.

Allied Chemical Company. Sulfur Seminar. Orlando, Fla., October 1988. Bahiagrass research.

Florida Institute of Phosphate Research Phosphate Reclamation Workshop: Charting a Course for the Future. Lakeland, Fla., April 1995. Uses of Phosphogypsum.

Meetings Moderated:

Agritech Educational Session and Trade Show, Strawberry Association, Plant City, FL,

August, 2006.

August, 2005.

August, 2004.

August, 2003.

August, 2002.

August, 2001.

August, 2000.

Soil Science Society of America Meeting, Indianapolis, IN, November, 1996.

Organizer/Moderator, Symposium 'Utilization of wastes in agriculture' American Chemical Society, Orlando, FL, August, 1996.

Soil Science Society of America Meeting, St. Louis, MO, October, 1995.

Organizer/Coordinator, agricultural section, of 16th World Congress, Czechoslovak Soc. of Arts and Sciences, Charles University, Prague, Czechoslovakia, June 1992.

Soil Crop Sci. Soc. Florida, Daytona Beach, FL, September 1990.

Soil Crop Sci. Soc. Florida Meeting, Marco Island, FL, October 1988.

Soil Crop Sci. Soc. Florida Meeting, Long Boat Key, FL, October 1987.

Caladium Research Review, Lake Placid, Fla.,

May, 2006

May, 2005.

May, 2004.

May, 2003.

May, 2002.

May, 2001.

May, 2000.

Extension Presentations and Field Days:

Cattle School. Okeechobee, Fla., September, 2002. Impact of phosphorus on stargrass and water quality.

Cattle school. Arcadia, Fla., September, 2002. Impact of phosphorus on stargrass and water quality.

Forage and Pasture Management School. Sebring, Fla., June, 1999. Soil Fertility (Nutrients and the soil).

C.N.B.C. TV Show. Farm Review. Importance of fertilizer for plants. February, 1999.

Forage and Pasture Management School. Sebring, Fla., June, 1998. Basic soil Fertility (Nutrients and the soil).

Forage and Pasture Management School. Sebring, Fla., June, 1998. Water quality and soils (BMP's for pastures).

Florida Cattlemen's Institute and Allied Trade Show. Caesium Fla., January, 1998. Revised IFAS fertilization recommendations.

Manatee County Extension Service. Bradenton, Fla., March, 1997. Fertilizers. Master Gardener/ Florida Yard Advisor Training.

Research-Extension Interface. Sebring, Fla., December, 1996. Bahiagrass recommendations.

University of Florida REC Field Day. Immokalee, Fla., October, 1996. Phosphorus Budgets for bahiagrass.

Educational Management Group. Tampa, Fla., March, 1996. The job of a soil scientist. (Video for Florida public school system).

Manatee County Extension Service. Bradenton, Fla., March, 1996. Soil science/ fertilizers/ soil tests. Master Gardener/ Florida Yard Advisor Training.

University of Florida REC Pasture Legume field Day. Ona, Fla., October, 1995. Fertilization of summer legumes.

Manatee County Extension Service. Bradenton, Fla., April, 1995. Soil fertility and plant nutrition: Master Gardener Training.

University of Florida AREC Field Day. Ona, Fla., October, 1994. Research update on fertilizing bahiagrass and hermathhria.

Soil Crop Sci. Soc. Florida. Daytona Beach, Fla., September, 1994. Utilization of phosphogypsum (phosphate waste byproducts) in agriculture.

Manatee County Extension Service. Bradenton, Fla., March, 1994. Soil fertility and plant nutrition: Master Gardener Training.

Sarasota County Extension Service. Forage and Pasture Management Workshop. Sarasota, Fla., February, 1994. Nutrient Management in Forage Production.

Southern Pasture and Forage Crop Improvement Conference. Ona, Fla., June, 1993. Influence of phosphogypsum on the environment.

University of Florida AREC Field Day. Ona, Fla., June, 1993. Fertilization of bahiagrass.

Manatee County Extension Service. Bradenton, Fla., March, 1993. Use of fertilizers: Master Gardener Training.

Soil Crop Sci. Soc. Florida. Gainesville, Fla., September, 1992. Influence of phosphogypsum on bahiagrass and the environment.

Desoto County Cattleman's Association. Arcadia, Fla., March, 1992. Fertilizer update on bahiagrass.

Manatee County Extension Service. Bradenton, Fla., May, 1992. Soil fertility and plant nutrition: Master Gardener Training.

Manatee County Extension Service. Bradenton, Fla., January, 1992. Lawn care: Master Gardener Training.

University of Florida AREC Field Day. Ona, Fla., October, 1991. Sulfur fertilization of bahiagrass pasture.

Manatee County Extension Service. Bradenton, Fla., May, 1991. Soil fertility and plant nutrition: Master Gardener Training.

Manatee County Extension Service. Bradenton, Fla., May, 1990. Soil fertility and plant nutrition: Master Gardener Training.

Soil Crop Sci. Soc. Florida. Daytona Beach, Fla., September, 1990. Mycorrhizal status of *Vigna parkeri*.

Soil Crop Sci. Soc. Florida. Daytona Beach, Fla., September, 1990. Contribution of phosphorus from manure and inorganic sources on bahiagrass yield and quality.

Soil Crop Sci. Soc. Florida. Daytona Beach, Fla., September, 1990. Impact of phosphorus fertilization of pastures on water quality.

Soil Crop Sci. Soc. Florida. Daytona Beach, Fla., September, 1990. Phosphorus and lime fertilization of bahiagrass pastures.

Soil Crop Sci. Soc. Florida. Clearwater, Fla., September, 1989. Phosphorus fertilization of bahiagrass.

Manatee County Horticultural Hay Day. Bradenton, Fla., November, 1989. Lawn Maintenance.

Florida Cattlemen's Association. Marco Island, Fla., September, 1989. Phosphorus fertilization of pastures.

Manatee County Extension Service. Bradenton, Fla., July, 1989. Soil fertility and plant nutrition: Master Gardener Training.

East Coast Beef Forage Seminar. Cocoa, Fla., January, 1989. Pasture fertilization management and sulfur trial results.

Research-Extension Interface. Lake Placid, Fla., November, 1988. Sulfur fertilization of forages.

University of Florida AREC, Ona, Fla., Field Day. October, 1988. Response of bahiagrass to nitrogen and sulfur.

Desoto County Extension Service. Sulfur Trial and Winter Annual Planting Demonstration Field Day. Arcadia, Fla., October, 1988. Sulfur nutrition.

Florida Cattlemen's Association. Marco Island, Fla., September, 1988. Pasture fertilization.

Soil Crop Sci. Soc. Florida, Marco Island, Fla., September, 1988. Sulfur fertilization of bahiagrass.

University of Florida AREC Stargrass Field Day, June, 1988. Fertilizing stargrasses.

South Florida Water Management District, Ona, Fla., May, 1988. Phosphorus fertilization of bahiagrass.

University of Florida Fertilizer Short Course, Sebring, Fla., February, 1988. Importance of soil sampling.

Soil Crop Sci. Soc. Florida, Marco Island, Fla., September, 1988. Development of DRIS norms for bahiagrass.

Soil Crop Sci. Soc. Florida, Sarasota, Fla., October, 1987. Extractability of plant nutrients in selected Florida soils as influenced by drying techniques.

Sarasota County Cattleman's Association, Sarasota, Fla., October, 1987. Influence of nitrogen rates and sources on bahiagrass.

University of Florida AREC Field Day. Ona, Fla., May, 1987. Nitrogen fertilization of ryegrass.

Desoto County Cattleman's Association. Arcadia, Fla., April, 1987. Effect of sulfur fertilization on bahiagrass.

CREATIVE WORKS:

Developed marketing brochure on the programs at the Gulf Coast Research and Education Center, 2006.

Specific power point presentations have been created for various meetings and conferences and are on CD-ROM and in the process of being added to UF Websites to be available to research and extension faculty, 2003.

Contributor to <http://GCREC.IFAS.UFL.EDU>, Website of the University of Florida's Gulf Coast Research and Education at Bradenton and Dover, 2002-Present.

Collaborated with Hillsborough County on a new documentary video on the new state-of-the-art regional Gulf Coast Research and Education Center in Balm, 2002.

Developed promotional brochure on the programs at the Gulf Coast Research and Education Center, 2001.

Collaborated with Honeywell Corporation on the development of a video for C.N.B.C. T.V. show. Farm review on the importance of sulfur in agriculture, 1999.

PUBLICATIONS

Thesis and Dissertation:

Rechcigl, J. E. 1986. A comparative study of limiting and toxic factors in acid soils and their effects on alfalfa performance. Ph.D. Dissertation. Virginia Polytechnic Institute & State University. 143 pp.

Rechcigl, J. E. 1983. Effect of plowsole lime and fertilizer on alfalfa. M.S. Thesis. Virginia Polytechnic Institute and State University. 222 pp.

Books:

Rechcigl, J. E. and N. A. Rechcigl (eds.). 2000. *Insect Pest Management: Techniques for Environmental Protection (Agriculture and Environment Series)*. CRC Press/Lewis Publishers, Boca Raton, Fla., 392 pp.

Rechcigl, J. E. and N. A. Rechcigl (eds.). 2000. *Biological and Biotechnological Control of Insect Pests, (Agriculture and Environment Series)*. CRC Press/Lewis Publishers, Boca Raton, Fla., 374 pp.

Rechcigl, N.A. and J. E. Rechcigl (eds.). 1997. *Environmentally Safe Approaches to Crop Disease Control, (Agriculture and Environment Series)*. CRC Press/Lewis Publishers, Boca Raton, Fla, 386 pp.

Rechcigl, J. E. and H. C. MacKinnon. 1997. *Agricultural Use of By-Products and Wastes*. American Chemical Society, Washington D.C., 284 pp.

Rechcigl, J. E. (ed.). 1995. *Soil Amendments: Impacts on Biotic Systems, (Agriculture and Environment Series)*. CRC Press/Lewis Publishers, Boca Raton, Fla., 321 pp.

Rechcigl, J. E. (ed.). 1995. *Soil Amendments and Environmental Quality, (Agriculture and Environment Series)*. CRC Press/Lewis Publishers, Boca Raton, Fla., 504 pp.

Monographs:

Rechcigl, J. E., I. S. Alcordo, L. Boruvka†, A. B. Bottcher, and R. C. Littell. 2002. *Greenhouse and Field Evaluations of Limestone and Gypsum for Reducing Phosphorus Leaching and Runoff from Beef Cattle Pastures*. South Florida Water Management District Pub. C-10201, 154 pp.

Alcordo, I.S., Rechcigl, J. E., and R. C. Littell. 2002. *Greenhouse Evaluation of Lime and Gypsum Materials for Reducing Phosphorus Leaching in a Spodosol: Greenhouse Study 1*. South Florida Water Management District Pub. C-10201, 197 pp.

Rechcigl, J. E., L. Boruvka†, I. S. Alcorido, and R. C. Littell. 2002. *Greenhouse Evaluation of Lime and Gypsum Materials for Reducing Phosphorus Leaching in a Spodosol: Greenhouse Study 2*. South Florida Water Management District Pub. C-10202, 165 pp.

Rechcigl, J. E., I. S. Alcorido, C. E. Roessler, R. C. Littell. 2001. *Predicting the Long Term Radiological Impact of High Rates of Phosphogypsum on Soils, Surficial Water (Part 1)*. Florida Institute of Phosphate Research Pub. 05-044-174, 109 pp.

Rechcigl, J. E., I. S. Alcorido, C. E. Roessler, R. C. Littell. 2001. *Impact of Phosphogypsum on Soils, Water and Bahiagrass (Part 2)*. Florida Institute of Phosphate Research Pub. 05-044-174, 154 pp.

Adjei, M. B. and J. E. Rechcigl. 2000. *Impact of Inorganic and Organic Fertilizer Application Rate on Bahiagrass Production, and on Soil and Water Quality under Grazing Conditions*. Final report FDACS Nitrate BMP Program, 26 pp.

Rechcigl, J. E., I. S. Alcorido, C. E. Roessler, R. C. Littell. 1998. *Impact of High Rates of Phosphogypsum on Radon Emissions and on Radioactivity and Heavy Metals in Soils, Groundwater, and Bahiagrass*. Florida Institute of Phosphate Research Pub. 05-038-141, 272 pp.

Rechcigl, J. E., I. S. Alcorido, C. E. Roessler, R. C. Littell. 1996. *Influence of Phosphogypsum on Forage Yield and Quality and on the Environment in Typical Florida Spodosol Soils, Volume I: Forage yields and quality of bahiagrass and annual ryegrass pastures*. Florida Institute of Phosphate Research Pub. 01-085-127, 247 pp.

Rechcigl, J. E., I. S. Alcorido, C. E. Roessler, R. C. Littell. 1996. *Influence of Phosphogypsum on Forage Yield and Quality and on the Environment in Typical Florida Spodosol Soils, Volume II: Environmental Aspects Associated with Phosphogypsum Applied as a Source of Sulfur and Calcium to Bahiagrass and Annual Ryegrass Pastures Growing on Florida Spodosol Soils*. Florida Institute of Phosphate Research Pub. 01-085-127, 161 pp.

Book Chapters:

Rechcigl, J. E., H. K. Pant, and M. B. Adjei. 2006. Nitrogen fertilization of turf: Impact on water quality. *In* J. H. Lehr (ed.). *The Encyclopedia of Water*. John Wiley and Sons Publishing. New York, NY (in press).

Barker, A. V., M. L. Stratton, and J. E. Rechcigl. 2000. Soil and by-product characteristics that impact the beneficial use of by-products. *In* J. Power (ed.). *Land Application of Agricultural, Industrial, and Municipal By-Products*. Soil Sci. Soc. Am. Monograph, Madison, Wis., pp. 169-213.

Stratton, M. L. and J. E. Rechcigl. 1999. What is composting-role of composting in waste management. In A. Shiralipour (ed.). *Beneficial Uses of Composts in Florida Users Manual*. Center for Biomass Programs, University of Florida, Gainesville, Fla., pp. 9-11.

Stratton, M. L. and J. E. Rechcigl. 1999. Current status of composting in the United States and Florida. In A. Shiralipour (ed.). *Beneficial Uses of Composts in Florida Users Manual*. Center for Biomass Programs, University of Florida, Gainesville, Fla., pp. 12-14.

Rechcigl, J. E., I. S. Alcorido, R. C. Littell and C. E. Roessler. 1999. Phosphogypsum uses in agriculture and it's impact on the environment. In J. D. Nelson (ed.). *Tailings and Mine Waste 99*. A.A. Balkemia/ Rotterdam/ Brookfield Publishers, The Netherlands, pp.769-773.

Stratton, M. L. and J. E. Rechcigl. 1998. Agronomic benefits of agricultural, municipal and industrial by-products. In S. Brown, S. Angle and L. Jacobs (eds.). *Beneficial Co-Utilization of Agricultural, Municipal, and Industrial By-Products*. Kluwer Academic Publishers, The Netherlands, pp. 9-34.

Alcorido, I. S., J. E. Rechcigl, R. C. Littell, A. K. Alva, and C. E. Roessler. 1998. Agronomic impact of high rates of phosphogypsum applied to bahiagrass pasture on a Florida Spodosol soil. In S. Brown, S. Angle and L. Jacobs (ed.). *Beneficial Co-Utilization of Agricultural, Municipal, and Industrial By-Products*. Kluwer Academic Publishers, The Netherlands, p. 423-430.

Muchovej, R. M. C. and J. E. Rechcigl. 1998. Nitrogen recovery by bahiagrass receiving varying application rates of pelletized biosolids. In S. Brown, S. Angle and L. Jacobs (eds.). *Beneficial Co-Utilization of Agricultural, Municipal, and Industrial By-Products*. Kluwer Academic Publishers, The Netherlands, p. 341-348.

Stratton, M. L. and J. E. Rechcigl. 1997. Composts, wood products and mulches as soil conditioners. In A. Wallace and R. E. Terry (ed.). *Handbook of Soil Conditioners*. Marcel Dekker, Inc., New York, NY., pp. 43-95.

Alcorido, I. S. and J. E. Rechcigl. 1995. Phosphogypsum and industrial by-product. In J. E. Rechcigl (ed.). *Soil Amendments and Environmental Quality, (Agriculture and Environment Series)*. CRC Press/Lewis Publishers, Boca Raton, Fla., pp. 365-426.

Muchovej, R.M.C. and J. E. Rechcigl. 1995. Nitrogen fertilizers. In J. E. Rechcigl (ed.). *Soil Amendments and Environmental Quality, (Agriculture and Environment Series)*. CRC Press/Lewis Publishers, Boca Raton, Fla., pp. 1-64.

Stratton, M. L., A. V. Barker and J. E. Rechcigl. 1995. Composts. In J. E. Rechcigl (ed.). *Soil Amendments and Environmental Quality, (Agriculture and Environment Series)*. CRC Press/Lewis Publishers, Boca Raton, Fla., pp. 249-310.

Muchovej, R.M.C. and J. E. Rechcigl. 1994. Impact of nitrogen fertilization of turf and pasture grasses on water quality. *In* R. Lal and B. A. Stewart (eds.). *Soil Processes and Water Quality, (Advances in Soil Science Series)*. CRC Press/Lewis Publishers, Boca Raton, Fla., pp. 91-135.

Alcordero, I. S. and J. E. Rechcigl. 1993. Phosphogypsum in Agriculture: A Review. *In* D. L. Sparks (ed.). *Advances in Agronomy*. Academic Press, New York, NY.. Vol. 49:55-118.

Rechcigl, J. E., R. B. Reneau, Jr. and D. E. Starner. 1991. Alfalfa yields and quality as influenced by subsurface application of phosphorus, potassium and limestone. *In* R. J. Wright, V. C. Baligar and R. P. Murrmann (eds.). *Plant-Soil Interactions at Low pH, Developments in Plant and Soil Science*. Kluwer Academic Publishers, London, pp. 485-490.

O'Donnell, J. J., J. E. Rechcigl, W. D. Pitman and D. M. Sylvia. 1991. Establishment and growth of *Vigna parkeri* on an acid Florida spodosol in response to lime and phosphorus. *In* R. J. Wright, V. C. Baligar and R. P. Murrmann (eds.). *Plant-Soil Interactions at Low pH, Developments in Plant and Soil Science*. Kluwer Academic Publishers, London, pp. 491-500.

Rechcigl, J. E. 1991. Chemical and physiological aspects of soil acidity with focus on alfalfa. *In*: S. G. Pandalai (ed.). *Advances in Agronomy*. Council of Scientific Research Integration, India, Vol. I, pp. 1-15.

Refereed Journal Articles:

Pant, H. K., M. B. Adjei and J. E. Rechcigl. 2006. Phosphorus impact on water quality: A review. *Soil Sci.* (in press).

Pant, H. K., M. B. Adjei, and J. E. Rechcigl. 2004. Agricultural catchments and water quality: a phosphorus enigma. *J. Food Agric. Environ.* 2:360-363.

Pant, H. K., P. Mislevy, and J. E. Rechcigl. 2004. Effects of phosphorus and potassium on forage nutritive values and quantity: environmental implications. *Agron. J.* 96:1299-1305.

Pant, H. K., J. E. Rechcigl, and M. B. Adjei. 2003. Carbon sequestration in wetlands: concept and estimation. *J. Food Agric. Environ.* 1:3 08-313.

Boruvka, L., and J. E. Rechcigl. 2003. Phosphorus retention by the Ap horizon of a spodosol as influenced by calcium amendments. *Soil Sci.* 168:699-706.

Adjei, M. B. and J. E. Rechcigl. 2002. Bahiagrass production and nutritive value as affected by domestic wastewater residuals. *Agron. J.* 94:1400-1410.

Rechcigl, J. E., R. S. Kalmbacher and F. G. Martin. 2002. Phosphorus and potassium fertilization of *Aeschynomene* and *Stylosanthes*. *Soil and Crop Sci. Soc. Florida Proc.* 61:81-84.

Adjei, M. B., R. S. Kalmbacher and J. E. Rechcigl. 2001. Effect of P and K fertilizer on forage yield and nutritive value of Floralta limpgrass. *Soil and Crop Sci. Soc. Florida Proc.* 60:9-14.

Ibrikci, H., E. A. Hanlon, and J. E. Rechcigl. 1999. Influence of manure and P rates on bahiagrass. *Nutrient Cycling in Agroecosystems* 54:259-266.

Alcordero, I. S., J. E. Rechcigl, C. E. Roessler, and R. C. Littell. 1999. Radiological impact of phosphogypsum applied to soils under bahiagrass pasture. *J. Environ. Qual.* 28:1555-1567.

Kalmbacher, R. S., J. E. Rechcigl, F. G. Martin, and A. E. Kretchmer, Jr. 1998. Effect of dolomite and sowing rate on plant density, yield, and nutritive value of *Paspalum atratum*. *Tropical Grasslands* 32:89-95.

Rechcigl, J. E., I. S. Alcordero, C. E. Roessler, R. C. Littell and L. R. Stieff. 1998. Radiological impact of applying phosphogypsum to tilled lands cropped to annual ryegrass. *Soil Sci.* 163:834-840.

Rechcigl, J. E. and P. Mislevy. 1997. Stargrass response to lime and phosphogypsum. *J. Prod. Agric.* 10:19, 101-105.

Rechcigl, J. E., P. Mislevy and H. Ibrikci. 1995. Response of established bahiagrass to broadcasted lime and phosphorus. *J. Prod. Agric.* 8:249-253.

Rechcigl, J. E. and A. B. Bottcher. 1995. Fate of phosphorus on bahiagrass pastures. *Ecological Engineering* 5:247-259.

Ibrikci, H., N. Comerford, E. A. Hanlon, and J. E. Rechcigl. 1994. Phosphorus uptake by bahiagrass from spodosol: Modeling of uptake from different horizons. *Soil Sci. Soc. Am. J.* 58:139-143.

Rechcigl, J. E., P. Mislevy, and A. K. Alva. 1993. Influence of limestone and phosphogypsum on bahiagrass growth and development. *Soil Sci. Soc. Am. J.* 57:96-102.

Kalmbacher, R. S., F. G. Martin, and J. E. Rechcigl. 1993. Effect of N-P-K fertilization on yield and tiller density of creeping bluestem. *J. Range Management.* 46:452-457.

Sveda, R., J. E. Rechcigl, and P. K. Nkedi-Kizza. 1992. Evaluation of various nitrogen sources and rates on Pensacola bahiagrass and water quality. *Commun. Soil Sci. Plant Anal.* 23:879-905.

Ibrikci, H., E. A. Hanlon, and J. E. Rechcigl. 1992. Calibration of inorganic P soil test methods with bahiagrass production. *Commun. Soil Sci. Plant Anal.* 23:2569-2579.

Alcordero, I. S. and J. E. Rechcigl. 1992. Solubility curves as a method to characterize the constituents in phosphogypsum. *Commun. Soil Sci. Plant Anal.* 23:2595-2611.

Rechcigl, J. E., G. G. Payne, and C. A. Sanchez. 1992. Comparison of various soil drying techniques on extractable nutrients. *Commun. Soil Sci. Plant Anal.* 23:2347-2363.

Rechcigl, J. E., I. S. Alcordo, C. E. Roessler, and L. R. Stieff. 1992. Methods of measuring the ambient atmospheric radon and radon flux associated with phosphogypsum treatments on a typical Florida spodosol soil. *Commun. Soil Sci. Plant Anal.* 23:2581-2594.

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