

CURRICULUM VITAE

(August, 2013)

Edward C. McGawley, Nematologist and Professor
(emcgawley@agctr.lsu.edu)

Residence:

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Baton Rouge, Louisiana 70808
Telephone: 225-769-0748

University Affiliation:

Department of Plant Pathology & Crop Physiology
302 Life Sciences Building
Louisiana State University Agricultural Center
Baton Rouge, Louisiana 70803
Telephone: 225-578-7145 (laboratory), 225-578-1387 (office)
Fax: 225-578-1415

Academic Rank: Full Professor

Graduate Faculty Status: Full Member

Education: University of Kentucky, Ph.D., 1977

Professional Experience:

- *1978-1980, Visiting Assistant Professor, Louisiana State University
- *1980-1985, Assistant Professor, Louisiana State University
- *1985-1989, Associate Professor, Louisiana State University
- *1990- Current, Full Professor

Areas of Research Interest:

- *Nematode diseases of agricultural plants
- *Nematode disease complexes
- *Nematode-fungus interactions
- *Pinewood nematode biology
- *Allelopathy/allelochemicals
- *Reproductive variation in populations of the reniform nematode, *Rotylenchulus reniformis*
- *Development of environmentally-responsible nematicides

LSU Agricultural Center Service or Representation:

- *Plant Pathology Seminar Committee, 1993-2001
- *Chairman, Graduate Admissions Committee. 1996-1999
- *Chairman, Foundation Accounts Committee. 1995-2002
- *Department Head Search Committee, 1992, 1997
- *Admissions and Standards Committee, 1987-1995
- *Facilities and Services Committee, 1991-2002
- *Acting Plant Pathology Department Head (intermittently)
- **ad hoc* Teaching Laboratory Committee-1985-1991, 2010
- *Member, LSU Foundation Accounts Committee, 1995-2006
- *Chairman, C.W. Edgerton Committee, 1998-2003

- * LSU Dissertation Evaluation Committee, 1988-89, 1991-1993
- *USDA Western Regional IPM Special Projects Grants Review Panel, 1989-1995, *ad hoc* reviewer, 1991-1998.
- *Delegate to Council for Agricultural Science and Technology (CAST), 1995-1997
- *Louisiana Agricultural Center Strategic Planning Committee Plant Science Task Force, 1990-1991

Courses Developed or Taught:

- *Nematology (PLHL 7000) 1980-Current
- *Plant Pathology Seminar (PLHL 7052) 1990, 1994, 1996, 1997, 2000, 2003, 2012
- *Integrated Pest Management (PLHL 8900, 1/3 of course) 1991-1997, 2000
- *Honors Biology (Biol. 1007-1008, 4 hrs. /semester) 1991-1994, 2000
- *Introductory Plant Pathology (PLHL 4000) 1990-Current
- *Guest Lectures In:
 - *Introductory Entomology (PLHL 4000, 4 hrs. /year) 1980-1990
 - *Plant Disease Management and Control (PLHL 4001, 6 hrs. /yr) 1982-1995).
 - *Introductory Zoology (Zoology 1002, 6 hrs. /yr) 1992-2006
 - *Invertebrate Zoology (Biology 1005-Southeastern Louisiana University-12 hrs. per year) 1988-2009
 - *General Plant Pathology (Biology 501-Southeastern Louisiana University-5 hrs. per semester) 1982-2009

Publications:

Book Chapters:

- *McGawley, E.C. 1992. Interactions with other pest species. Pp. 97-105. IN: Biology and Management of the Soybean Cyst Nematode. (Eds. R.D. Riggs and J.A. Wrather). American Phytopathological Society, St. Paul, MN.
- *McGawley, E.C. and C. Overstreet. 1998. Nematode Parasites of Rice and Other Cereals. Pp. 455-486 IN: Monograph on Plant-Nematode Interactions. American Society of Agronomy 417 pp.
- *Barker, K.R. and E.C. McGawley. 1998. Interrelations of Cyst Nematodes with other Microorganisms and Pests. Pp. 266-292 IN: Cyst Forming Nematodes. S.B. Sharma, Editor. American Phytopathological Society, 538 pp.
- *McGawley, E.C. and C. Overstreet. 1999. Reniform Nematode. IN: Compendium of Soybean Diseases, 4th Ed., J.C. Rupe, Editor, American Phytopathological Society. Pp. 54-55.
- *Overstreet, C. and E.C. McGawley. 2000. Sting Nematode. IN: Compendium of Cotton Diseases, 2nd Ed., T. L. Kirkpatrick, Editor, American Phytopathological Society, Pp. 45-46.
- *Overstreet, C. and E.C. McGawley. 2000. Introduction to Cotton Nematodes. IN: Compendium of Cotton Diseases, 2nd Ed., T. L. Kirkpatrick, Editor, American Phytopathological Society, Pp. 38-40.
- *Overstreet, C. and E.C. McGawley. 2000. Thielaviopsis black root rot disease. IN: Encyclopedia of Plant Pathology. John Wiley & Sons, New York. Pp. 186-188.

*Lewis, S.A., D.J. Chitwood, and E.C. McGawley. 2003. Nematode Biology, Morphology and Physiology in Dekker Encyclopedia of Plant and Crop Science, Robert M. Goodman, Ed. Marcel Dekker, NY. Pp. 42-47.

Articles in refereed journals:

- *McGawley, E. C. and R. A. Chapman. 1982. Population dynamics of *Criconemoides simile* on soybean. *Journal of Nematology* 14(4): 572-575.
- *McGawley, E. C. and R. A. Chapman. 1983. Population development of concomitant *Criconemoides simile*, *Helicotylenchus pseudorobustus*, and *Paratylenchus projectus* on soybean. *Journal of Nematology* 15(1): 87-91.
- *McGawley, E. C., M. C. Rush and J. P. Hollis. 1984. The occurrence of *Aphelenchoides besseyi* in Louisiana rice seed and its interaction with *Sclerotium oryzae* in selected cultivars. *Journal of Nematology* 16(1): 42-46.
- *Jones, J. P. and E. C. McGawley. 1984. Karyology and ascus formation in *Cordyceps capitata*. *Canadian Journal of Botany*. 62(10): 2146-2149.
- *McGawley, E. C., K. L. Winchell, J. P. Jones, W. Birchfield and G.T. Berggren. 1985. Population development and influence of *Bursaphelenchus xylophilus* on *Gliocladium virens*. *Journal of Nematology* 16(1): 69-76.
- *Dabney, S. M., E. C. McGawley, D. J. Boethel and D. A. Berner. 1988. Short term crop rotation systems for soybean production. *Agronomy Journal* 80(2): 197-204.
- *Overstreet, C., and E. C. McGawley. 1988. Influence of *Calonectria crotalariae* on reproduction of *Heterodera glycines* on soybean. *Journal of Nematology* 20(3): 457-467.
- *Russin, J.S., M.B. Layton, D.J. Boethel, E.C. McGawley, J.P. Snow, and G.T. Berggren. 1989. Development of *Heterodera glycines* on soybean damaged by soybean looper and stem canker fungus. *Journal of Nematology* 21(1): 108-114.
- *Russin, J.S., M.B. Layton, D.J. Boethel, E.C. McGawley, J.P. Snow, and G.T. Berggren. 1989. Severity of soybean stem canker disease affected by insect-induced defoliation. *Plant Disease* 73: 144-147.
- *McGawley, E.C., G.T. Berggren, J.P. Snow and L.L. Black. 1989. Graduate student seminar. *Plant Disease* 79: 778-779.
- *Russin, J.S., M.B. Layton, D.J. Boethel, E.C. McGawley, J.P. Snow, and G.T. Berggren. 1990. Growth, nodule development, and N₂ fixation in soybean affected by an insect-fungus-nematode pest complex. *Journal of Economic Entomology* 83: 247-254.
- *Overstreet, C., and E. C. McGawley. 1990. Influence of multiple inoculum levels of *Heterodera glycines* and *Calonectria crotalariae* on growth of soybeans. *Journal of Nematology* 22: 496-505.
- *Pinochet, J., R.R. Kabana, J. Marull, and E.C. McGawley. 1993. *Meloidogyne javanica* and *Pratylenchus vulnus* on pecan (*Carya illinoensis*). *Fundamentals of Applied Nematology* 16: 73-77.
- *Russin, J. S., E.C. McGawley, and D.J. Boethel. 1993. Population Development of *Meloidogyne incognita* on Soybean Defoliated by *Pseudoplusia includens*. *Journal of Nematology* 25: 50-54.
- *Sankaralingam, A. and E. C. McGawley. 1994. The Interrelationships of *Rotylenchulus reniformis* with *Rhizoctonia solani* on Cotton. *Journal of*

Nematology 26: 475-485.

*Sankaralingam, A. and E. C. McGawley. 1994. Influence of *Rhizoctonia solani* on Egg Hatching and Infectivity of *Rotylenchulus reniformis*. Journal of Nematology 26: 486-491.

*Erwin, S. R., E. C. McGawley, and J. S. Russin. 1997. Extraction of root-associated *Meloidogyne incognita* and *Rotylenchulus reniformis*. Journal of Nematology 29: 209-215.

*Erwin, S. R., J. S. Russin, and E. C. McGawley. 1997. Replacement series: A new approach to study competition between phytoparasitic nematodes. Journal of Nematology 29: 35-42.

*Stetina, S.R., E. C. McGawley, and J. S. Russin. 1997. Relationship between *Meloidogyne incognita* and *Rotylenchulus reniformis* as influenced by soybean genotype. Journal of Nematology 29:395-403.

*Wenefrida, I., E. C. McGawley, and J. S. Russin. 1997. Interactions between ring and stunt nematodes and *Macrophomina phaseolina* on grain sorghum. Journal of Nematology 29: 199-208.

*Wenefrieda, I., J.S. Russin, and E.C. McGawley. 1998. Competition between *Tylenchorhynchus annulatus* and *Criconebella xenoplax* on grain sorghum (*Sorghum bicolor*). Journal of Nematology 30: 423-430.

*Hoy, J.W. and E.C. McGawley. 1998. Cultural control: changing environment and crop to reduce pests. Louisiana Agriculture 41(4):7-10.

*Bond, J.P., E.C. McGawley, and J.W. Hoy. 2000. Distribution of plant-parasitic nematodes on sugarcane in Louisiana and efficacy of nematicides. Journal of Nematology 32:493-501.

*McGawley, E.C., M.J. Pontif and J.B. Sumner. 2004. Efficacy of Agri-Terra against phytoparasitic nematode species indigenous to Louisiana. Proceedings of the Fifth International Conference on Alternatives to Methyl Bromide, 27-30 September, 2004, Lisbon, Portugal. 178-184.

*Carter-Wientjes, C.H., J.S. Russin, D.J. Boethel, J.L. Griffin, and E.C. McGawley. 2004. Feeding and maturation by soybean looper (Lepidoptera: Noctuidae) larvae on soybean affected by weed, fungus, and nematode pests. Journal of Economic Entomology 97: 14-20.

*Bond, J.P., E.C. McGawley and J.W. Hoy. 2004. The Impact of Nematodes on Sugarcane Cultivars. Nematropica 34: 235-243.

*Bond, J.P., E.C. McGawley and J.W. Hoy. 2004. Sugarcane Growth as Influenced by Nematodes and *Pythium arrhenomanes*. Nematropica 34: 245-256.

*Robinson, A. F., R. Akridge, J. M. Bradford, C. G. Cook, W. S. Gazaway, T. L. Kirkpatrick, G. W. Lawrence, G. Lee, E. C. McGawley, C. Overstreet, B. Padgett, R. Rodriguez-Kabana, A. Westphal, and L. D. Young. 2005. Vertical Distribution of *Rotylenchulus reniformis* in cotton fields. Journal of Nematology 37 (3): 265-271.

* Robinson, A. F., Akridge, J. R., Bradford, J. M., Cook, C. G., Gazaway, W. S. McGawley, E. C., Starr, J. L., and Young, L. D. 2006. Suppression of *Rotylenchulus reniformis* 122-cm Deep Endorses Resistance Introgression in *Gossypium*. Journal of Nematology 38: 195-209.

- *Pontif, M.J. and E.C. McGawley 2007. The Influence of Morningglory (*Ipomoea lacunosa*), Hemp Sesbania (*Sesbania exaltata*), and Johnsongrass (*Sorghum hirsutum*) L. and Soybean (*Glycine max*). (L.) Merrill. *Nematropica* 37:295-305.
- *Pontif, M. J. and E. C. McGawley. 2008. The influence of leachates from roots of Morningglory (*Ipomoea lacunosa*), Hemp Sesbania (*Sesbania exaltata*) and Johnsongrass (*Sorghum halepense*) on eclosion and hatching of eggs of *Rotylenchulus reniformis*. *Nematropica* 38:23-35.
- *McGawley, Edward C., C. Overstreet and M.J. Pontif. 2009. Introduction to Nematodes, Society of Nematology. <http://www.nematologists.org>.
- *Navas, A. P. Flores-Romero, S. Sanchez-Moreno, J. A. Camargo, and E. C. McGawley. 2010. Effects of heavy metal soil pollution on nematode communities after the Aznalcollar mining spill. *Nematropica* 40:13-29.
- *McGawley, E. C., M. J. Pontif and C. Overstreet. 2010. Variation in Reproduction and Pathogenicity of Geographic Isolates of *Rotylenchulus reniformis* on Cotton. *Nematropica* 40:275-288.
- *McGawley, E. C., C. Overstreet and M. J. Pontif. 2011. Variation in reproduction and pathogenicity of geographic isolates of *Rotylenchulus reniformis* on soybean. *Nematropica* 41:12-22.
- *McGawley, Edward C., C. Overstreet, M.J. Pontif and A.M. Skantar. 2011. Molecular Diagnostics: a new section of Introduction to Nematodes, Society of Nematology and Organization of Nematologists of Tropical America. <http://www.nematologists.org> and <http://www.ontaweb.org>.

Abstracts (113, but not listed in this document as space required is 5 pages)

Scholarly and Creative Contributions:

Biological Illustration:

- *Phytonematode Anatomy and Morphology (Size 24 x 36"). Winchell, K.L., and E.C. McGawley. Copyright: LSU Department of Plant Pathology and Crop Physiology, 1986, 1993, 2001.
- *Phytonematode Anatomy and Morphology (Size 24 x 36"). E.C. McGawley and K.L. Winchell. Copyright: LSU Department of Plant Pathology and Crop Physiology. 2008.

Videotape Productions:

- * "Early Season Soybean Disorders: Nematodes" (Duration: 11 minutes). Copyright: Southern Soybean Disease Workers, 1985. Authors: McGawley, E.C., and S.D. Bost.
- * "Graduate Opportunities in Plant Pathology and Crop Physiology at Louisiana State University" (Duration: 14 minutes). Copyright: LSU Department of Plant Pathology and Crop Physiology, 1986. Authors: McGawley, E.C., L.L. Black, G.T. Berggren, D.R. McKenzie, P.R. Jordan and N. Murai.
- * "Preparation of Perineal Patterns of Root-Knot Nematodes." (Duration: 8 minutes). 1990. Authors: Eisenbach, J.D., and E.C. McGawley
- * "Identification of Common Genera of Plant Parasitic Nematodes." (Duration: 21 minutes) 1988, 1991. Authors: Eisenbach, J.D. and E.C. McGawley.
- * "Short Video Clips of Selected Genera of Plant Parasitic Nematodes."

(Duration: 7 minutes). 1993. Authors: McGawley, E.C. and J.D. Eisenback.

CD-Rom Productions:

* "Identification of Common Genera of Plant Parasitic Nematodes." (Duration: 60 minutes) 1999. Authors: Eisenback, J.D. and E.C. McGawley

*Bond, J.P. and E.C. McGawley. 2000. Plant Parasitic Nematodes. <http://www.siu.edu/~plss/bond/>

* "Nematicides against reniform nematode in Louisiana." (Duration: 12 minutes) Authors: Erwin, T.L., C. Overstreet, and E.C. McGawley. 2002. Proceedings of the Beltwide Cotton Conferences, National Cotton Council, P.O. Box 820285, Memphis, TN.

* "Nematode Management: reniform/root-knot competition and reproduction." (Duration: 22 minutes) Authors: Overstreet C. and E.C. McGawley. 2002. Proceedings of the Beltwide Cotton Conferences, National Cotton Council, P.O. Box 820285, Memphis, TN.

* "Introduction to Plant Parasitic Nematodes." (Duration: 17 minutes) 2003. Authors: McGawley, E.C., C. Overstreet and M.J. Pontif

* "Introduction to Plant Pathogens" (Duration 14 minutes) 2003. Authors: McGawley, E.C. and J. Bruce.

* "Introduction to Plant Parasitic Nematodes." (Duration: 120 minutes) 2009. Authors: McGawley, E.C., C. Overstreet and M.J. Pontif.

*Introduction to Plant Parasitic Nematodes: Molecular Diagnostics. 2011. Authors: McGawley, E.C., C. Overstreet, M.J. Pontif and A.M. Skantar.

Visiting Scientists and Educators:

a) Mr. Tayo Fademi, Principal Research Officer
National Cereals Research Institute
Bida, Niger State, Nigeria (1990-1991)

"Influence of *Heterodera glycines* on symptomology and severity of soybean stem canker disease"

b) Mrs. Marykay Leblanc, High School Teacher Resident
Archbishop Shaw High School, Gretna, LA
1992 & 1993- LSU Summer Intern Program for High School Teachers

c) Ms. Colette Terry, Pre-Medical Student
Xavier University, New Orleans, LA
1999 & 2000-National Science Foundation Research Experience for Undergraduates Program

d) 2013-Dr. Yuko Takeuchi-Kyoto University laboratory of Terrestrial Microbiology, Japan. "Pinewood Nematode Pathogenicity Elicitors"

Graduate Students:

*Major Professor for 7 Ph.D. and 4 M.S. students

*Committee member for 10 Ph.D. and 8 M.S. students

Invited Seminars and Symposia: (last 5 years)

*5th International Congress of Nematology, Brisbane Australia, 7/13/2008, oral and poster presentations.

- *Third International Biofumigation Symposium, Canberra Australia, 7/21/2008, 2 oral presentations.
- *Australian Research Institute, Tasmania Australia, 7/23/2008, 2 oral presentations.
- *Australian Organic Roadshow, Melbourne Australia, 7/25/2008, oral presentation
- *9th International of Congress of Plant Pathology, Torino, Italy, 8/24/2008, oral presentation.
- *Regional Research Project S-1015 Meeting, Amelia Island, FL, 1/5-6/2009; oral presentation.
- *Annual Meeting of Society of Nematologists, Burlington, VT, 7/12-15/2009; Presenter for two 60 minute presentations (Education and Executive Committees) on multimedia presentation entitled "Introduction to Nematodes."
- *Invited Seminar, Southeastern Louisiana University, Hammond, LA, 10/22/2009;
- *Invited Seminars, Arizona State University, Tucson, AZ, 11/5-6/2009; 2 oral seminars.
- *Board of Directors Meeting, Cal-Agri Products LLC, Los Angeles, CA, 1/18-21/2009; 3 oral presentations.
- *Beltwide Cotton Meeting, New Orleans, LA 1/4-7/2010; oral presentation.
- *13th Congress of the Mediterranean Phytopathological Union, Rome, Italy 6/17-24/2010, 2 oral presentations.
- *Institute of Nematology & Dept. of Plant Pathology, University of Bari, Bari, Italy 6/25-29/2010, 2 oral presentations, one at Nematology institute and one in Dept. of Plant Pathology
- *Beltwide Cotton Meeting, Atlanta, Georgia, 1/2-5/2011, oral presentation.
- *Annual Meeting of Regional Project S-1046. Atlanta, Georgia. 2/5/2011, oral presentation.
- *Society of Nematology Annual Meeting, Boise, Idaho 7/11-14/2010, 2 oral presentations.
- *European Society of Nematology Congress, Vienna, Austria 9/19-23/2010, 3 oral presentations and one poster presentation.
- *Annual Meeting of the Society of Nematologists, Corvallis, Oregon, July 16-21/2011, 2 oral presentations.
- *Kyoto University, Kyoto, Japan 8/7-28/2011, 5 oral presentations.
- *Beltwide Cotton Conferences, Orlando, FL; 1/3-6/2012; oral presentation.
- *Multistate Research Project S-1046 Meeting, Orlando, FL; 1/7/2012; oral presentation.
- *Sakata Seed Company, Ft. Myers FL, 1/8-9/2012; invited oral presentation.
- *Sixth Annual Conference of the Society for Environmental

Toxicology And Chemistry World Congress, Berlin, Germany, 5/19-25/2012; poster presentation.

*Syngenta Nematology Conference, Park City, UT, 8/1-3/2012; oral presentation.

*Annual Meeting of the Society of Nematologists, Savannah, GA, 8/12-16/2012; oral presentation.

*Biannual Symposium of the European Society of Nematologists, Adana, Turkey, 9/23-27/2012; oral presentation.

*Multistate Research Project S-1046 Meeting, Biloxi, MS; 10/31-11/2/2012; oral presentation.

*Beltwide Cotton Conferences, San Antonio, TX; 1/7-11/2013; oral presentation.

*Multistate Research Project S-1046 Meeting, San Antonio, TX; 1/7-11/2013; oral presentation.

*Future IPM in Europe Conference, Riva Del Garda, Italy, 3/19-21/2013; invited oral presentation

*Meeting of Russian Society of Nematology and Invited lectures at University of Moscow; Moscow, Russia; 6/21-7/7/2013; 5 oral presentations.

*Annual Meeting of the Society of Nematologists; Knoxville, TN; 7/14-17/2013; 2 oral presentations.

*Annual Meeting of the Organization of Nematologists of Tropical America; LaSerena, Chile; 10/21-25/2013; oral presentation.

Awards, Prizes, or Lectureships:

*William J. Fulbright Fellowship Recipient, 1996-97

*NATO/ JNICT Scholarship Recipient, 1997

*Sigma Xi Distinguished Professor

*Louisiana State University Science Club

*Outstanding Service Award, 2000, Society of Nematologists

*Outstanding Teaching Award, Louisiana State University, 2001

*Outstanding Service Award, 2006, Organization of Nematologists of Tropical America

*Outstanding Teaching Award, 2013, Society of Nematologists

Contributions to Refereed Publications (Reviewer, Editorships)

*Editorship:

Editor, Nematology Newsletter, 1997-2000

Editor-in-Chief, Nematropica, 2002-2005

*Reviewer for:

Journal of Nematology, 1989-2002

Nematropica, 1990-current

Nematology, 2002-2005

Plant Disease, 1986-current

Crop Protection, 1990-2005

International Journal of Plant-Soil Relationships, 1991-1994

Phytopathology Mediterranea, 2011-current

Professional Society Involvement:

*Society of Nematologists:

Biological Control Committee, 1990-1995
Ecology Committee, 1992-2002. 2010-current
Education Committee, 1990-current, Chairman, 1992, 1996, 2006
Membership Committee, 2013
Delegate to Organizing Committee of Third International Congress. 1995.
Executive Board, 1997-2002
Associate Editor, Journal of Nematology, 1996-Current
Nominee for office of Treasurer, 1995
Nominee for office of Vice-President, 2003
Nominee for office of vice-president, 2004

*Organization of Tropical American Nematologists

Education Committee, 2000-current

Regional Research Involvement: (Louisiana Senior Voting Member)

S-154 Regional Nematology Research Project: Biology of Nematodes Parasitic on Soybean

S-212 Regional Nematology Research Project: Biology of Genetically Changing Root-Knot and Cyst Nematodes of Soybean

S-253 Regional Nematology Research Project: Biology of Genetically Changing Root-Knot and Cyst Nematodes of Soybean

S-282 Regional Nematology Research Project: Managing Plant-parasitic Nematodes in Sustainable Agriculture with Emphasis on Crop Resistance

S-1015 Regional Nematology Research Project: Host Resistance as the Cornerstone for Managing Plant-Parasitic Nematodes in Sustainable Agroecosystems

S-1046 Regional Nematology Research Project: Improved Management of Plant-Parasitic Nematodes Through Modern Diagnostic Tools and Increased Use of Host Resistance

Grants and Contracts: (1996-present)

*1996. Races Distribution of Soybean Cyst Nematode in the Southern U.S. Riggs, R.D., E.C. McGawley, and G.W. Lawrence. United Soybean Board. \$50,000

*1996. Evaluation of Pathogenic Variation in Populations of the Reniform Nematode, *Rotylenchulus reniformis*, which Parasitizes Cotton in Louisiana. E.C.McGawley \$25,000.

*1996. Nematicide application methodology and nematode species identification in Louisiana cotton. Overstreet, C and E.C. Mc Gawley. Louisiana Cotton Support Committee, \$10,000.

*1996. Impact of Nematodes on Sugarcane Production in Louisiana and their Interaction with *Pythium* Root Rot. McGawley, E.C. American Sugarcane League. \$16,500.

*1997. Evaluation of the Role of Nematodes and Mycorrhizal Fungi in Cork-Oak Decline in Portugal. McGawley, E.C.; J. William Fulbright Foreign Scholarship Commission, Washington, D.C., Council for International Exchange of Scholars (CIES) and Luso-American Educational Commission, \$40,000.

*1996-1998. Interactions Among Members of a Pest Complex and their Individual and Combined Effects on Development and Yield of Soybean. D. J. Boethel, J. S. Russin, M. B. Layton, E. C. McGawley, J. P. Snow and G. T. Berggren; USDA/CSRS Southern Regional IPM Grants Program, \$77,500.

*1998-2000. Root Cultures for the Production of Biologically Active Plant Secondary Metabolites. M. A. Hjortso, H. E. Flores, E. C. McGawley and N. H. Fischer; National Science Foundation, \$40,000./yr.

*1999-2005. Evaluation of Agri-Terra for the Management of Plant Parasitic Nematodes. McGawley, E.C.; Cal-Agri Products, LLC. \$40,000./yr.

*2007. "Efficacy of Agri-Terra Against Phytoparasitic Nematodes." CalAgri Products, LLC, \$30,000.

*2007. Impact of Knock-Out Against Nematodes Associated with Turf. Knock-Out Technology, LLC, \$7,500

*2008. Efficacy of Agri-Terra Against Nematodes on Economically Important Crops in Louisiana. CalAgri Products, LLC, \$10,000.

*2008. Efficacy of Knoch-Out against Nematodes on Golf Turf. Knock-Out Technology, LLC, \$15,000.

2008. Efficacy of Agri-Terra against Nematodes of Strawberry—CalAgri Products LLC, \$5,000.

2009. Management of Nematodes Important in Recreational Golf Ecosystems---Nuvilex Corp., \$21,000.

2010. Efficacy of *Pasteuria penetrans* against *Rotylenchulus reniformis*. Pasteuria bioscience, LLC, \$12,500.

2011. Management of Soybean Cyst Nematode with Transgenic Soybean. Bayer CropScience, \$48,000.

2011. Seed-Treatment Nematicides for Control of Root-Knot and Reniform Nematodes. Syngenta Corp., \$10,000.

2011. Vector Relationships Between Japanese and American Populations of the Pine Sawyer Beetle and the Pinewood Nematode. LSU Board of Regents EPSCoR program, \$2,500.

2012. Efficacy of an Avicta/Pasteuria seed treatment combination against the reniform nematode, *Rotylenchulus reniformis*. \$16,000

2013. Efficacy of a new seed-treatment material against reniform and root-knot nematodes. Helena Seed Co., \$10,000.