

Curriculum Vita

Name: Stephen H. Thomas
Rank/Title: Professor, Nematology/Plant Pathology
Office Address: Entomology, Plant Pathology, and Weed Science Department
New Mexico State University
PO Box 30003, MSC 3BE
Las Cruces, NM 88003-8003
Phone: (505) 646-2321
E-mail: stthomas@nmsu.edu

<u>Degree</u>	<u>Institution</u>	<u>Date</u>	<u>Major</u>
Ph.D.	Iowa State University, Ames, IA	1980	Plant Pathology (Nematology)
M.S.	Iowa State University, Ames, IA	1976	Plant Pathology (Nematology)
B.A.	Univ. of Evansville, Evansville, IN	1973	Chemistry

Academic and Professional Experience:

1998 - Present Professor, Department of Entomology, Plant Pathology and Weed Science, New Mexico State University, Las Cruces, NM

1986 - 1998 Associate Professor, Department of Entomology, Plant Pathology, and Weed Science, New Mexico State University, Las Cruces, NM

1980 - 1986 Assistant Professor, Department of Entomology, Plant Pathology, and Weed Science, New Mexico State University, Las Cruces, NM

1983 - 1985 USAID/BIFAD joint appointment, New Mexico State University and Centro Agronomico Tropical de Investigacion y Ensenanza, Turrialba, Costa Rica

Regional Research Projects:

2008 - present W-2186 Regional Research Project, "Variability, Adaptation, and Management of Nematodes Impacting Crop Production and Trade" (Secretary - 2008; Vice-Chair - 2009; Chair - 2010).

2001 - 2007 W-1186 Regional Research Project, "Genetic Variability in the Cyst and Root-knot Nematodes" (Local Arrangement Chair - 2002).

1994 - 1998 NC R-172 Regional Research Project, "Molecular Aspects of the Host-Parasite Relations Involving Sedentary Endoparasitic Nematodes".

1993 - 2001 W-186 Regional Research Project, "Genetic Variability in the Cyst and Root-knot Nematodes" (Secretary - 1996; Chair - 1998).

1987-1992	S-205 Regional Research Project, "Host Plant Resistance in Cotton to Insects, Mites, Nematodes, and Diseases".
1984 - 1988	W-134 Regional Research Project, "Developing Parameters in the Nematode Pest Management Decision Process" (Chairman - 1986).
1983 - 1987	WRCC-28 Regional Coordinating Committee, "Crop Loss Assessment".

Research Responsibilities and Acquired Support:

- Multiple pest interactions in chile (2007-2008) – Chile Yield Improvement Project, \$40,000.
- Root-knot Nematode Resistant Alfalfa for Suppression of the Yellow and Purple Nutsedge and Root-knot Nematode Complex (2006-2008) – USDA Pest Management Alternatives Program, (with J. Schroeder, L. Murray, and J. Libbin), \$134,410.
- Survey of root-knot nematodes in New Mexico pecan (2005-2006) – USDA/APHIS CAPS, \$8,700.
- Nematodes in southwestern pecan (1998-2008) – USDA Southwest Pecan Integrated Pest Management, \$108,000.
- Ecology of nematode-weed interactions in peppers (1992-2006) - NM Chile Improvement Project (with J. Schroeder), \$255,000.
- Sustainable approach to nematode and weed management in chile (1997-2003) - NM Chile Improvement Project (with I. Ray, J. Schroeder), \$143,500.
- Reducing nematode injury to cotton (1991-2003) - Nat. Cotton Council, \$42,000.
- Molecular mechanisms of nematode infection in chile (1996-2006) - NM Chile Improvement Project (with C. Sengupta-Gopalan, S. Hanson), \$291,500.
- Nutsedge-root-knot nematode-pepper interactions (1999-2001) - USDA/National Research Initiative (with J. Schroeder and L. Murray), \$150,000.
- Engineering nematode resistance in alfalfa (1997-1999) - various corporate sponsors - (with C. Sengupta-Gopalan) \$60,000.
- Weed-pepper-nematode interactions (1995-1998) - USDA/National Research Initiative, (with J. Schroeder and L. Murray), \$150,000.
- Industry and USDA/IR4 grants (1984-1997) - various corporations, \$67,650.
- Molecular mechanisms of nematode-induced feeding site development (1992-1994) - USDA/SW Consortium (with C. Sengupta-Gopalan), \$83,700.
- Interactions among *Phytophthora capsici*, weeds, and nematodes (1992-1993) - NM Chile Improvement Project (with C. Biles, C. Liddell, J. Schroeder), \$16,000.
- Genetic engineering of nematode resistance (1990-1992) – Water Resources Research Institute, (with C. Sengupta-Golalan), \$50,000.
- Techniques to reduce rates of nematicides (1990-1991) - CSRS/WRPIAP, \$10,000.
- Survey of nematodes in alfalfa, chile, and cotton in NM (1988-1990) USDA/APHIS Pest Survey and Detection Program, - \$11,300.
- Comparative efficacy of nonfumigant nematicides (1984-1985) - CSRS/WRPIAP, \$14,000.
- Nematode dynamics in maize and bean production in Costa Rica (1983-1985) - USDA/BIFAD, \$25,950.
- Effects of nematodes on growth of guayule (1981-1984) - USDA/SEA, \$31,500.
- Decomposition and nutrient cycling in desert ecosystems (1981-1983) - NSF, \$40,200.

Membership in Professional Societies:

- Society of Nematologists
- Organization of Nematologists of Tropical America
- American Phytopathological Society
- Council of Agricultural Science and Technology

Research Service - National:

- Society of Nematologists:
 - Secretary, (2006-2009)
 - Treasurer, N. A Cobb Nematology Foundation (2003-2006)
 - Editor - *Journal of Nematology* (1997-1999)
 - Associate Editor - *Journal of Nematology* (1994-1996)
 - Associate Editor - *Annals of Applied Nematology* (1995-1996)
 - Long Range Planning Committee (2003-2006)
 - Finance Advisory Committee (2001-2004)
 - Education Committee (2001-2004; Chair – 2003)
 - Executive Board Member-at-large (1997-1999)
 - Editorial Board (1997-1999)
 - National Meetings Program Committee (1995, 1998)
 - Industry Committee (1996-1998; Chair - 1998)
 - Ecology Committee (1981-1983; 1993-1995; Chair - 1995)
 - Membership Committee (1982-1984)
- USDA/Rio Grande Basin Initiative Grant Panel (2004; 2008)
- USDA/IREEC Methyl Bromide Transitions Grant Panel (2002; 2003).
- USDA/CSREES Integrated Pest Management Grant Panel (1988).
- American Association for the Advancement of Science:
 - Chairman, Agricultural Sciences Sections, Southwest & Rocky Mountain Division (1989).
 - Convenor and program organizer, Plant Molecular Biology Symposium, 1989, SW & Rocky Mountain Div., AAAS.
- Proposal and manuscript reviews for following: (>90 proposals; >200 manuscripts)
 - National Science Foundation
 - USDA programs:
 - NRI
 - SBIR
 - CSRS IMP
 - CSREES MBT
 - CSRS SW Consortium on Plant Genetics
 - CSRS Southern Regional Research Program
 - State Agricultural Experiment Stations (AL, AR, NM, OR, TX)
 - Refereed journals:
 - *Journal of Nematology*
 - *Nematropica*
 - *Plant Disease*
 - *Plant Health Progress*
 - *Crop Science*

- *HortScience*
- *Journal of Range Management*
- *Weed Science*
- *Annual Review of Phytopathology*
- *Phytopathology*
- *Journal of Cotton Science*

Awards, Invited Presentations, Honorary Societies:

- New Mexico State University College of Agriculture Team Research Award (2006) – with J. Schroeder and I. Ray.
- New Mexico State University College of Agriculture Faubian Garcia Founders Award of Excellence (2001) – with G. Phillips, C. Bullard, and D. Ebler.
- Society of Nematologists Best Economic Paper Award (1978)
- Invited presentations:
 - Weed Science Society of America (2003)
 - University of California 34th Nematology Workshop (2002)
 - University of Florida Dept. of Entomology and Nematology (2000)
 - Third International Congress of Nematology (1996)
- Honorary societies:
 - Sigma Xi
 - Phi Beta Chi
 - Gamma Sigma Delta
 - Phi Kappa Phi

Teaching Responsibilities:

EPWS 481 - "Plant Nematology"

Refereed Publications:

Ou, Z., L. Murray, S. H. Thomas, J. Schroeder, and J. Libbin. 2008. Nutsedge counts predict *Meloidogyne incognita* juvenile counts in an integrated management system. **Journal of Nematology** 40:(*in press*).

Norsworthy, J. H., J. Schroeder, S. H. Thomas and L. W. Murray. 2007. Purple nutsedge (*Cyperus rotundus*) management in direct-seeded chile peppers (*Capsicum annuum*) using halosulfuron and cultivation. **Weed Technology** 21:636-641.

Van Voorhies, W.A., J. Fuchs, and S. H. Thomas. 2005. The longevity of *Caenorhabditis elegans* in soil. **Proceedings of the Royal Society Biology Letters** 1(2):247-249.

Norsworthy, J. H., J. Schroeder, S. H. Thomas, and L. W. Murray. 2005. Southern root-knot nematode effect on purple nutsedge (*Cyperus rotundus*) and chile pepper response to halosulfuron. **Weed Technology** 19: 1004-1011.

Thomas, S. H., J. Schroeder and L. W. Murray. 2005. The role of weeds in nematode management. **Weed Science** 53:923-928.

- Schroeder, J., S. H. Thomas, and L. W. Murray. 2005. Impacts of crop pests on weeds. **Weed Science** 53: 918-922.
- Thomas, S. H., J. Schroeder and L. W. Murray. 2004. *Cyperus* tubers protect *Meloidogyne incognita* from 1,3-dichloropropene. **Journal of Nematology** 36:131-136.
- Schroeder, J., S. H. Thomas and L. W. Murray. 2004. Root-knot nematodes affect annual and perennial weed interactions with chile pepper. **Weed Science** 52:28-46.
- Zewdie, Y., S. Thomas and P. W. Bosland. 2003. 'NuMex Nematador', southern root knot nematode-resistant cayenne. **HortScience** 38:631-632.
- Nyczepir, A.P., C.C. Reilly, B.W. Wood, and S.H. Thomas. 2002. First record of *Meloidogyne partityla* on pecan in Georgia. **Plant Disease** 86:441.
- Thomas, S.H., J.M. Fuchs, and Z.A. Handoo. 2001. First report of *Meloidogyne partityla* on pecan in New Mexico. **Plant Disease** 85:1030.
- Thomas, S.H., S.A. Sanderson, and Z.A. Handoo. 2001. First report of Columbia root-knot nematode (*Meloidogyne chitwoodi*) in potato in New Mexico. **Plant Disease** 85:924.
- Potenza, C., S.H. Thomas, and C. Sengupta-Gopalan. 2001. Genes induced during early response to *Meloidogyne incognita* in roots of resistant and susceptible alfalfa cultivars. **Plant Science** 161: 289-299.
- Schroeder, J., S.H. Thomas, and L. Murray. 1999. Yellow and purple nutsedge are not injured by increasing root-knot nematode population densities. **Weed Science** 47: 201-207.
- Potenza, C.L., S.H. Thomas, E.A. Higgins, and C. Sengupta-Gopalan. 1996. Early root response to *Meloidogyne incognita* in resistant and susceptible alfalfa cultivars. **Journal of Nematology** 28: 475-484.
- Thomas, S.H., L. Murray, and M. Cardenas. 1995. Relationship of preplant population densities of *Meloidogyne incognita* to damage in three chile pepper cultivars. **Plant Disease** 79:557-559.
- Thomas, S.H. 1994. Influence of 1,3-dichloropropene, fenamiphos, and carbofuran on *Meloidogyne incognita* populations and yield of chile peppers. **Supplement to Journal of Nematology** 26:683-689.
- Schroeder, J., M. J. Kenney, S.H. Thomas and L. W. Murray. 1994. Yellow nutsedge response to southern root-knot nematodes, chile peppers, and metolachlor. **Weed Science** 42:534-540.
- Zamora, E., S.H. Thomas and P.W. Bosland. 1994. 'Carolina Cayenne' as a source of resistance to *Meloidogyne incognita* races 1,2,3 and 4. **HortScience** 29:1184-1185.
- Thomas, S.H. and D.W. Smith. 1993. Effects of 1,3-dichloropropene for *Meloidogyne incognita*

management on cotton produced under furrow irrigation. **Supplement to Journal of Nematology** 25:752-757.

Schroeder, J.S., S.H. Thomas, and L. Murray. 1993. Yellow and purple nutsedge and chile peppers host southern root-knot nematode. **Weed Science** 41:150-156.

Klump, R.S. and S.H. Thomas. 1987. Comparative resistance of selected 'Acala 1517 cotton cultivars to *Meloidogyne incognita* race 3. **Annals of Applied Nematology** 1:113-115.

Thomas, S.H. and D.C. Norton. 1986. Influence of selected maize hybrids on nematode populations under differing edaphic conditions. **Plant Disease** 70:234-237.

Thomas, S.H. and C. Goddard. 1986. Population dynamics of selected plant-parasitic nematode species on guayule. **Plant Disease** 70:579-580.

Parker, L.W., J. Ryder-White, S. Thomas, and W.G. Whitford. 1985. The effects of oxamyl and chlordane on the activities of non-target soil organisms. **Biology and Fertility of Soils** 1:141-148.

Klich, M.A., S.H. Thomas, and J.E. Mellon. 1984. Initial field investigations on the mode of entry of *Aspergillus flavus* into cotton seeds. **Mycologia** 76:665-669.

Thomas, S.H. 1978. Population densities of nematodes under seven tillage regimes. **Journal of Nematology** 10:24-27.

Norton, D.C., J. Tollefson, P. Hinz, and S. Thomas. 1978. Corn yield increases relative to nonfumigant chemical control of nematodes. **Journal of Nematology** 10:160-166.

Book Chapters:

Nyczepir, A. P. and S. H. Thomas. 2008. Current and future management strategies in intensive crop production systems. *in* **Root-knot nematodes**. R. N. Perry, M. Moens, and J. Starr, eds. Commonwealth Agricultural Bureau International (*in press*).

McSorley, R.L. and S.H. Thomas. 2003. Diseases caused by nematodes. Pp. 46-49. *in* K. Pernezy, P. D. Roberts, J. F. Murphy, and N. P. Goldberg, eds. **Compendium of Pepper Diseases**. St. Paul, MN: American Phytopathological Society.

Thomas, S.H. and T.L. Kirkpatrick. 2001. Root-knot nematodes. Pp. 40-42. *in* T.L. Kirkpatrick and C.S. Rothrock, eds. **Compendium of Cotton Diseases**, 2nd Edition. St. Paul, MN: American Phytopathological Society Press.

Shannon, E., S. Thomas, and M. Clayshulte. 1981. Control of nematodes. New Mexico Cooperative Extension Service **Bulletin 400 W-8**.

Shannon, E., S. Thomas, and M. Clayshulte. 1981. How to check for nematode problems. New

Published Abstracts and Proceedings:

Thomas, S. H., J. Schroeder, L. Murray, J. Trojan, C. Fiore, and J. Libbin. 2008. Development of a management strategy for the *Meloidogyne incognita*/*Cyperus rotundus*/*C. esculentus* pest complex. Proceedings, 5th International Congress of Nematology (*in press*).

Trojan, J. M., S. H. Thomas, J. Schroeder, and L. W. Murray. 2007. The influence of *Meloidogyne incognita* inoculum source and competition on nematode virulence on chile pepper. **Journal of Nematology** 39:97 (abstr).

Ou, Z., L. Murray, J. Schroeder, and S. H. Thomas. 2007. Using nutsedge counts to predict root-knot nematode juvenile counts in an integrated management system. Proceedings, Western Society of Weed Science 60:37.

Schroeder, J., S. C. Nunez, S. H. Thomas, and L. W. Murray. 2007. Early season irrigation affects initial development of yellow nutsedge, purple nutsedge, and root-knot nematode. Proceedings, Western Society of Weed Science 60:39.

Thomas, S.H., J. M. Trojan, and J.A. Couch. 2006. Survey of plant-parasitic nematodes in New Mexico pecan orchards using an ATV-mounted hydraulic soil auger. **Journal of Nematology** 38:298. (abstr.).

Trojan, J.M., S. H. Thomas, J. Schroeder, and L. W. Murray. 2006. Host suitability of yellow nutsedge and purple nutsedge for *Meloidogyne javanica*, *M. hapla*, and *M. incognita* races 1,2 and 3. **Journal of Nematology** 38:299 (abstr).

Nunez, S. C., J. Schroeder, S. H. Thomas, and L. W. Murray. 2006. Effect of early season irrigation and heat unit accumulation on yellow nutsedge, purple nutsedge, and root-knot nematode development. Proceedings, Western Society of Weed Science 59:106.

Murray, L. W., K. Wang, J. Schroeder, and S. H. Thomas. 2006. Statistical problems in estimating the 'Topological Index' of plant root-architecture data. Proceedings, Western North American Region of the International Biometric Society.

Thomas, S. H. and J. M. Trojan. 2005. Seasonal population dynamics and host suitability of *Meloidogyne parityla* on pecan in New Mexico. **Journal of Nematology** 37:399 (abstr.).

Trojan, J. M, S. H. Thomas, J. Schroeder, and L.W. Murray. 2005. Histological examination of yellow nutsedge and purple nutsedge tuber for the presence of *Meloidogyne incognita*. **Journal of Nematology** 37:400 (abstr.).

Nunez, S., J. Schroeder, S. H. Thomas, and L. W. Murray. 2005. The effects of soil temperature on yellow nutsedge, purple nutsedge, and root-knot nematode development. **Proceedings, Western Society of Weed Science** 58:30.

- Schroeder, J., B. J. Greenfield, S. H. Thomas, L. W. Murray, and J. M. Fuchs. 2005. Root-knot nematodes (*Meloidogyne incognita*) increase early season growth of purple and yellow nutsedge (*Cyperus rotundus* and *C. esculentus*) emerging from large tubers. **Weed Science Society of America, Abstracts** 45:205.
- Thomas, S.H., J. M. Fuchs, J. Schroeder, and L.W. Murray. 2004. The effect of previous host on subsequent virulence of *Meloidogyne incognita* on chile pepper and nutsedges. **Journal of Nematology** 36:348-349 (abstr.).
- Fuchs, J.M., S.H. Thomas, J. Schroeder, and L.W. Murray. 2004. Characterization of the effects of chile pepper, yellow nutsedge and purple nutsedge on *Meloidogyne incognita* reproduction. **Journal of Nematology** 36:318 (abstr.).
- Wang, K., L.W. Murray, J. Schroeder, and S.H. Thomas. 2004. Techniques of topological analysis for examining purple and yellow nutsedge root architecture. **Proceedings, Western Society of Weed Science** 57:43-44.
- Potenza, C., S.H. Thomas, G. Eiceman, and C. Sengupta-Gopalan. 2004. Use of global protein characterization to develop genetically engineered resistance to root-knot nematodes in plants. **Proceedings, Southwest Consortium on Plant Genetics and Water Resources**.
- Schroeder, J., S.H. Thomas, C. Fiore, J.M. Fuchs, I. Ray, and L.W. Murray. 2004. Alfalfa suppresses concomitant populations of nutsedges (*Cyperus esculentus* and *C. rotundus*) and root-knot nematode (*Meloidogyne incognita*) in subsequent pepper crops. **Weed Science Abstracts, Weed Science Society of America** 44:328.
- Thomas, S.H., C. Potenza, A.L. Jacobson, and J.M. Fuchs. 2004. Differentiation of *Meloidogyne partityla* from other root-knot nematode species in pecan using mt-DNA: the *Meloidogyne chitwoodi* cytochrome oxidase subunit II partial gene sequence. **GenBank** AY672411.
- Thomas, S.H., C. Potenza, A.L. Jacobson, and J.M. Fuchs. 2004. Differentiation of *Meloidogyne partityla* from other root-knot nematode species in pecan using mt-DNA: the *Meloidogyne partityla* cytochrome oxidase subunit II partial gene sequence. **GenBank** AY672412.
- Thomas, S.H., C. Potenza, A.L. Jacobson, and J.M. Fuchs. 2004. Differentiation of *Meloidogyne partityla* from other root-knot nematode species in pecan using mt-DNA: the *Meloidogyne hapla* cytochrome oxidase subunit II partial gene sequence. **GenBank** AY672413.
- Thomas, S.H., J. Schroeder, J. M. Fuchs, C. Fiore, I. Ray, and L. W. Murray. 2003. The efficacy of alfalfa as a rotation crop for simultaneous suppression of *Meloidogyne incognita* and nutsedges. **Journal of Nematology** 35:366 (abstr.).
- Luna, E., J. Schroeder, S. H. Thomas, and L. W. Murray. 2003. Purple nutsedge growth and biomass partitioning in response to root-knot nematodes. **Proceedings, Western Society of Weed Science** 56:92.
- Greenfield, B. J., J. Schroeder, S. H. Thomas, and L. W. Murray. 2003. Root-knot nematodes and tuber size affect early season growth of purple and yellow nutsedge. **Proceedings, Western Society of Weed Science** 56:92.

Fiore, C., J. L. Murray, I. Ray, J. Schroeder, and S. H. Thomas. 2003. Chile response to rotational crops for nutsedge and nematode suppression. **Proceedings, Western Society of Weed Science** 56:60.

Potenza, C., R. Richins, M. O'Connell, J. Fuchs, S. H. Thomas, and C. Sengupta-Gopalan. 2003. Microarrays as a tool for monitoring changes in root-knot nematode infected chile roots. **Proceedings, Society of Plant Biologists Abstracts**.

Thomas, S. H., J. Schroeder, and L. W. Murray. 2003. The role of weeds in nematode management. **Weed Science Society of America, Abstracts** 43:333. (invited symposium presentation)

Schroeder, J., S. H. Thomas, and L. W. Murray. 2003. Impact of crop pests, and their management, on weeds. **Weed Science Society of America, Abstracts** 43:328. (invited symposium presentation)

Schroeder, J., C. Fiore, I. Ray, S. H. Thomas, and L. W. Murray. 2002. Yellow and purple nutsedge population response to crop management in root-knot infested fields. **Weed Science Society of America, Abstracts** 42:55.

Fiore, C., J. Schroeder, S. Thomas, I. Ray, and L. Murray. 2002. A sustainable approach to nematode and nutsedge management in chile using nematode resistant alfalfa as a rotation crop. **Proceeding Western Society of Weed Science** 55:46.

Greenfield, B. J., J. Schroeder, S. H. Thomas, L. Murray, and J. M. Fuchs. 2002. The affect of *Meloidogyne incognita* on purple nutsedge and yellow nutsedge inter- and intra-specific competition. **Proceedings Western Society of Weed Science** 55:46.

Thomas, S.H., J.M. Fuchs, and A.L. Jacobson. 2001. *Meloidogyne partityla*: an emerging nematode pest of pecan in New Mexico. **Journal of Nematology** 33:279 (abstr.).

Schroeder, J., S. H. Thomas, and L.W. Murray. 2001. Influence of London rocket (*Sisymbrium irio*) and root-knot nematodes on interactions between chile peppers (*Capsicum annuum*) and spurred anoda (*Anoda cristata*). **Weed Science Society of America, Abstracts** 41:65.

Fiore, C., L. Murray, I. Ray, J. Schroeder, and S. H. Thomas. 2001. A sustainable approach to nematode and nutsedge management in chile using nematode-resistant alfalfa as a rotation crop. **Proceedings Western Society of Weed Science** 54:25.

Greenfield, B. J., J. Schroeder, S. Thomas, L. W. Murray, J. Fuchs, and K. F. Brown. 2001. Influence of root-knot nematodes and tuber size on emergence and development of viable reproductive structures of yellow nutsedge and purple nutsedge at early-season temperatures. **Proceedings Western Society of Weed Science** 54:7.

Thomas, S.H., J. Schroeder, and L.W. Murray. 2000. Effects of 1,3-dichloropropene and selected herbicides on *Meloidogyne incognita*/nutsedge interactions. **Journal of Nematology** 32:465 (abstr).

Thomas, S.H., J. Schroeder, and L.W. Murray. 1998. Interactions among *Meloidogyne incognita*, nutsedges, and chile peppers. **Journal of Nematology** 30: 518 (abstr).

Schroeder, J., S.H. Thomas, and L.W. Murray. 1998. Influence of 1,3-dichloropropene fumigation on purple and yellow nutsedge germination and survival of *Meloidogyne incognita*. **Journal of Nematology** 30: 515 (abstr).

Thomas, S.H., J. Schroeder, M.J. Kenney, and L.W. Murray. 1997. Influence of *Meloidogyne incognita* inoculum source on host suitability and growth of yellow nutsedge and chile pepper. **Journal of Nematology** 29:402-408.

Thomas, S.H., J. Schroeder, and L.W. Murray. 1997. Interactions among *Meloidogyne incognita*, annual or perennial weeds, and chile peppers. **Journal of Nematology** 29: 608 (abstr).

Potenza, C., E. Higgins, S.H. Thomas, and C. Sengupta-Gopalan. 1997. Characterization of host genes in the early stages of alfalfa - *Meloidogyne incognita* interaction. **Journal of Nematology** 29: 601 (abstr).

Thomas, S.H., J. Schroeder, and L.W. Murray. 1996. Interactions involving root-knot nematodes and annual or perennial weeds. **Nematropica** 26:227 (abstr.)

Potenza, C., S. Thomas, and C. Sengupta-Gopalan. 1996. Isolation of root-knot nematode induced/repressed plant genes by differential screening of a cDNA library from alfalfa roots. **Nematropica** 26:301 (abstr.).

Thomas, S.H., J. Schroeder, and L.W. Murray. 1995. Influence of weed-chile pepper associations on the population dynamics of *Meloidogyne incognita*. **Journal of Nematology** 27:521 (abstr.).

Thomas, S.H., C. Sengupta-Gopalan, C.L. Potenza and E.A. Higgins. 1994. Preliminary characterization of genes controlling *Meloidogyne incognita*-induced feeding site development in alfalfa. **Journal of Nematology** 26:121-122 (abstr).

Thomas, S.H., J. Schroeder, B. Vezzani and L.W. Murray. 1994. Relationship of broadleaf weeds and nutsedges to *Meloidogyne incognita* populations in chile peppers. **Journal of Nematology** 26: 121 (abstr).

Thomas, S.H., E.A. Higgins, P. Havstad, and J.D. Kemp. 1994. A technique for nondestructive evaluation of host suitability to nematodes in transformed tobacco plants. **Journal of Nematology** 26:568 (abstr.).

Higgins, E.A., S.H. Thomas, C.L. Potenza, and C. Sengupta-Gopalan. 1994. *Meloidogyne incognita* invasion and development in resistant and susceptible alfalfa cultivars. **Journal of Nematology** 26:551 (abstr).

Kenney, M.J., J. Schroeder, L.W. Murray and S.H. Thomas. 1992. Effects of a herbicide on yellow nutsedge and chile pepper suitability as hosts of *Meloidogyne incognita*. **Journal of Nematology** 24:60 1 (abstr).

Thomas, S.H., D.W. Smith and T.J. Roberts. 1991. Effects of *Meloidogyne incognita* race 3 on

fiber quality and yield of selected cotton cultivars under furrow irrigation. **Journal of Nematology** 23:552-553 (abstr).

Thomas, S.H., D.W. Smith and T.J. Roberts. 1991. Effects of *Meloidogyne incognita* race 3 on fiber quality and yield of selected cotton cultivars under furrow irrigation. **Journal of Nematology** 23:552-553 (abstr).

Thomas, S. H. and J. Schroeder. 1990. Effects of yellow nutsedge (*Cyperus esculentus*) and purple nutsedge (*C. rotundus*) on *Meloidogyne incognita* populations in chile peppers (*Capsicum annuum*). **Phytopathology** 80:1047 (abstr).

Thomas, S.H. and K. Arnold. 1989. Influence of *Meloidogyne incognita*-resistant cotton cultivars on yield parameters and population dynamics. **Journal of Nematology** 21:591 (abstr).

Thomas, S.H., C. Sengupta-Gopalan, M.E. Alvarez, G.D. Kuehn, and J.D. Kemp. 1988. Effects of collagenase from a nematode-trapping fungus on *Pratylenchus scribneri*. **Journal of Nematology** 20:661 (abstr).

Thomas, S.H. and L.W. Murray. 1987. Yield reductions in grain sorghum associated with injury by *Meloidogyne incognita* race 3. **Journal of Nematology** 19:559 (abstr).

Thomas, S.H., and J.L. Saunders. 1986. The influence of crop rotation and tillage practices on plant-parasitic nematode populations in a Costa Rican small farming system. **Phytopathology** 76:1108 (abstr).

Thomas, S.H. and J.L. Saunders. 1986. Joint influences of cultivation, residue incorporation and pesticides on nematode populations under tropical maize monoculture. **Journal of Nematology** 18:642 (abstr).

Thomas, S.H. and C.J. Goddard. 1985. Plant-parasitic nematode development on guayule, a latex-producing desert shrub. **Journal of Nematology** 17:505 (abstr).

Thomas, S.H. and M. Cardenas. 1985. Relationship between pre-season population numbers of *Meloidogyne incognita* and yield losses in chile pepper cultivars. **Phytopathology** 75:1304 (abstr).

Thomas, S.H. and M. Cardenas. 1983. A large plot method for assessing nematicide efficacy and nematode related crop loss. **Journal of Nematology** 15:490 (abstr).

Norton, D.C. and S.H. Thomas. 1982. The effects of tillage on nematodes. **Proceedings Eighth Illinois Crop Protection Workshop**. pp. 123-124.

Thomas, S.H. 1982. Effect of nematicides on sorghum yield and lesion nematode control in eastern New Mexico, 1981. **Fungicide-Nematicide Tests** 38:5-6.

Thomas, S.H. 1982. Influence of fumigant nematicides on southern root-knot nematodes and chile pepper yields, 1981. **Fungicide-Nematicide Tests** 38:6.

Thomas, S.H. and J. Ryder-White. 1982. Effect of low inoculum levels on *Meloidogyne incognita* on three chile cultivars. **Journal of Nematology** 14:473 (abstr).

Goddard, C.J. and S. Thomas. 1981. Suitability of guayule cultivar 593 as a host for selected plant-parasitic nematodes. **Proceedings Guayule Rubber Society** p. 20.

Thomas, S.H. 1980. Response of plant-parasitic nematodes to corn hybrids and edaphic factors. **Journal of Nematology** 12:239 (abstr).

Thomas, S.H. 1980. Effects of corn varieties and edaphic factors on populations of plant-parasitic nematodes. **Dissertation Abstracts Int.** Sec B40(12):5486-B.