

## *Curriculum Vita*

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**Rank/Title:** Professor, Nematology/Plant Pathology  
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<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:**

2012 - Present	Distinguished Professor, Department of Entomology, Plant Pathology and Weed Science, New Mexico State University, Las Cruces, NM
1998 - 2012	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 Investigación y Enseñanza, Turrialba, Costa Rica

**Responsibility:** Research (88%) and Teaching ('Plant Nematology'; 12%)

**Research Interests and Expertise:** Host-parasite relationships involving plant-parasitic nematodes; soil nematode ecology; nematode interactions with weeds and fungal pathogens; cropping systems for sustainable plant-pathogenic nematode management; nematodes as indicators of soil health.

### **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; Local Arrangement Chair - 2013).
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" (Chair - 1986).
1983 - 1987	WRCC-28 Regional Coordinating Committee, "Crop Loss Assessment".

### **Research Responsibilities and Acquired Support:**

- Enhancing capacity for identification of *Ditylenchus* species of regulatory concern (2013) – USDA APHIS (with S. Hanson), \$48,460.
- Enhancing nematode identification capacity in the Southwest (2011) – USDA APHIS (with S. Hanson), \$85,000.
- Inventory of soil microbial and other soil faunal ecosystem components at the White Sands National Monument and Guadalupe Mountains National Park. (2011) National Park Service (with E. Bernard, M. Lucero, C. Monger, and A. Unc), \$120,496.
- Evaluation of root-knot nematode management options in vineyards. (2010) – Dow AgroScience, \$4,000.
- Chile yield enhancement (2009-2011) NM Chile Association (with 12 other co-PIs), \$215,000.
- 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 (1998-2010) – USDA Southwest Pecan Integrated Pest Management, \$124,000.
- 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:
  - Honors and Awards – Best Student Paper Committee (2011)
  - President (2014/2015)
  - President-Elect (2013/2014)
  - Vice-President (2012/2013)
  - 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: (>92 proposals; >214 manuscripts)
  - National Science Foundation
  - USDA programs:
    - NRI
    - SBIR
    - CSREES IMP
    - CSREES MBT
    - CSREES SW Consortium on Plant Genetics
    - CSREES Southern Regional Research Program
    - Organic Commodities Grant 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*
    - *New Mexico Journal of Science*
    - *Soil Biology & Biochemistry*
    - *Journal of the American Society of Horticultural Science*
    - *Weed Technology*
    - *Journal of Visualized Experiments*

### **NMSU Leadership and Service:**

- University:
  - University Research Council (2006-2008; 1997-1998)
  - NMSU BioScience Mini-Grant Proposal Review Committee (2005)
  - NM Department of Agriculture Pesticide Technical Advisory Board (1998-present)
  - Faculty Senate (1986-1990; 1996-1998)
    - Subcommittees: Long-range Planning, University Affairs; Committee on Committees
  - University Appeals Board (1996-1998)
  - Search Committee – Vice-president for Research and Economic Development (1988)
  - Fulbright Graduate Award Review Committee (1987-1989)

- College of Agriculture, Consumer and Environmental Sciences:
  - Extra-departmental Promotion & Tenure Committee Member for: School of Hotel, Restaurant and Tourism Management; Extension Plant Sciences Department (2011-2013).
  - ACES Promotion and Tenure Committee (2007-2010; Chair in 2010)
  - ACES Academic Appeals Board (2010)
  - ACES Teaching Microscope Collection Maintenance Procurement (1982-present)
  - ACES Small Farm Institute Planning and Advisory Committee (2008-2011)
  - ACES Promotion & Tenure Policy Revision Committee (2007-2008)
  - ACES Performance Document Revision Advisory Committee (2007-2008)
  - Research Farm Technical Advisory Committee (2005-present)
  - NM Cooperative Extension Service Bulletin Review (1998-present; 2+ per year)
  - Search Committee – Dean & Chief Administrative Officer (1999)
  - Skeen Hall Teaching Lab Equipment Procurement Committee (1999-2000; Co-Chair)
  - Skeen Hall Research Lab Planning Committee (1999)
  - Curriculum Committee (1987-1992; Chair 1988-1992)
  - Promotion and Tenure Guidelines Revision Committee (1990)
  - Senior Faculty Senator (1989, 1990)
  - Committee to Develop Review Document for Dean & Chief Administrative Officer (1988)
  - Search Committee – Associate Dean of Resident Instruction (1988)
- Department of Entomology, Plant Pathology and Weed Science:
  - Department Head Search Committee (Chair, 2010-2011)
  - Promotion and Tenure Committee (1987-present; Chair 2006-present)
  - Graduate Admissions Committee (1989-present)
  - Scholarship Allocation Committee (1987-1993; Chair, 1987-1988)
  - Faculty Search Committees (1987-present) – 8 positions (Chair for searches in 1988, 1999, 2001, 2002)

### **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 34<sup>th</sup> 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"

### **Graduate Student Education:**

- Major professor:
  - Stefanie Grider (non-thesis; in progress)
  - Rio A. Stamler (2009); Thesis title: ‘Molecular Identification and Characterization of the Pecan Root-knot Nematode (*Meloidogyne partityla*)’
  - Jacqueline Trojan Fuchs (2004); Thesis title: ‘Characterization of the Relationship of *Meloidogyne incognita* in Association with Chile, Yellow Nutsedge and Purple Nutsedge’
  - William Meeks (1996); Thesis title: ‘Banks Grass Mite (*Oligonychus pratensis*) and Root-knot Nematode (*Meloidogyne incognita*) Interaction in Corn’
  - Robert S. Klump (1986); Thesis title: ‘Influence of Cotton and Sorghum Culture on Population Dynamics of *Meloidogyne incognita*’
- Committee member:
  - M.S. committees: 37
  - Ph.D. committees: 9