

# THOMAS MATTHEW DYKSTRA

Dykstra Laboratories, Inc.  
3499 NW 97<sup>th</sup> Blvd.  
Suite 6  
Gainesville, FL 32606

Lab: (352) 331-7008  
Fax: (352) 331-7008  
Email: [dykstralabs@yahoo.com](mailto:dykstralabs@yahoo.com)  
Website: [www.dykstralabs.com](http://www.dykstralabs.com)

## EDUCATION

- 1997 *Ph.D., Entomology-Bioelectromagnetics*  
University of Florida, Gainesville, Florida  
Dissertation: A Behavioral and Perceptual Study of Cat Flea Larvae,  
*Ctenocephalides felis*, and Their Responses to Various Stimuli
- 1994 *M.S., Entomology-Neurophysiology*  
University of Florida, Gainesville, Florida  
Thesis: Pheromonotropic Activity in the Abdominal Nerve Cord of the  
Tobacco Hornworm, *Manduca sexta*.
- 1990 *B.S., Entomology*  
Cornell University, Ithaca, NY  
Senior research: Purification of various cytochrome b<sub>5</sub> and P-450 enzymes  
in the housefly, *Musca domestica*, utilizing SDS-PAGE.
- 1986 *Regents H.S. Diploma*  
James E. Sperry High School, Henrietta, NY

## RESEARCH EXPERIENCE

- 1997-present **Laboratory Director-** Dykstra Laboratories, Inc.  
**Research:** Insect Olfaction-deciphered the insect olfactory code,  
Insect/Plant nutritional physiology, Stored Product Entomology,  
Behavioral and Chemical Ecology, Bioelectromagnetics, Antenna  
Physics, Proteomics, Consulting, Paramagnetism.
- 1994-1997 **Doctoral Candidate-** University of Florida  
**Research:** Bioelectromagnetics, Cat flea larval behavior to EMFs
- 1990-1994 **Master's Candidate-** University of Florida  
**Research:** Moth neurobiology, physiology, gas chromatography
- 1990 **Laboratory Technician-** Cornell University  
**Research:** Protein purification utilizing SDS-PAGE
- 1989 **Laboratory Technician-** Cornell University  
**Research:** Host-parasite interactions, insect rearing

## PATENTS

Pending	<b>Determining Odorant Detection in Arthropods</b> U.S. Patent Pending, applied September 2019
2019	<b>Radiating Systems for Affecting Insect Behavior</b> U.S. Patent #10,226,035
2017	<b>Insect Trap with Reflective Interior Walls</b> U.S. Patent #9,775,334
2017	<b>Radiation Systems for Affecting Insect Behavior (co-author)</b> Australian Patent #2014237064
2015	<b>Radiating Systems for Affecting Insect Behavior-2nd part (co-author)</b> U.S. Patent # 9,173,388
2015	<b>Radiating Systems for Affecting Insect Behavior (co-author)</b> U.S. Patent # 8,984,800
2014	<b>System for Trapping Insects</b> U.S. Patent # 8,893,428
2008	<b>Method and System for Dissipating and Amplifying Natural Emissions from a Resonant Cavity</b> Australian Patent #AU 2003210970 B2

## PRODUCT DEVELOPMENT

### **InnTrap®**

From researching the idea, prototype design, developing the product, testing the product, co-designing the product, and finally producing the product in order to bring it to successful market completion.

### **Universal Insect Trap Emitter**

Researching the idea, prototype design.

## TECHNOLOGY AWARDS

2018	<i>Winner- 4th Category Pioneering and Sophisticated Innovations Serving the Agricultural Sector</i>	<b>Khalifa International Award for Date Palm and Agricultural Innovation</b>
2017	<i>Innovative Ideas and Technologies in Agribusiness -Honorable Mention</i>	<b>United Nations Industrial Development Corporation- ITPO, Italy</b>
2016	<i>Best New Product for the ME market-agriculture</i>	<b>AGRAME</b>

## INVITED LECTURES/PODCASTS/WEBINARS

- 2024 **Why Insects Do Not Attack Healthy Plants**  
Webinar for Soilfood Web
- 2024 **Sucesión de Insectos en Árboles de Cítricos con Diferentes Niveles de Salud**  
Masterly Conference: Why Don't Insects Attack Healthy Plants?  
Novedades Agrícolas DASA, Guadalajara, Jalisco, Mexico
- 2024 **Conductividad Eléctrica del Suelo**  
Masterly Conference: Why Don't Insects Attack Healthy Plants?  
Novedades Agrícolas DASA, Guadalajara, Jalisco, Mexico
- 2024 **Por Qué Los Insectos No Atacan a las Plantas Sanas**  
Masterly Conference: Why Don't Insects Attack Healthy Plants?  
Novedades Agrícolas DASA, Guadalajara, Jalisco, Mexico
- 2024 **Soilcraft Podcast (Episode #11) interview** joined by Dr. Arden Andersen with hosts Denver Black and Trent Graybill.
- 2024 **Healthy Plants are Readily Avoided by Plant-Eating Insects**  
Bottom Line Agriculture Conference, Bismarck, ND
- 2024 **Plant Brix: testing and analyzing leaf Brix, root Brix, and fruit Brix**  
Managing Diseases & Pests using Minerals & Biology to Produce Nutrient Dense Food, Winnipeg, Manitoba, CAN
- 2024 **Insect Succession using Citrus as an Example**  
Managing Diseases & Pests using Minerals & Biology to Produce Nutrient Dense Food, Winnipeg, Manitoba, CAN
- 2024 **Insects are Just Not Attracted to Healthy Plants**  
Managing Diseases & Pests using Minerals & Biology to Produce Nutrient Dense Food, Winnipeg, Manitoba, CAN
- 2024 **Paramagnetism in Agriculture**  
Back to Your Roots Producers Conference, Edmonton, Alberta, CAN
- 2024 **Raising Brix & Lowering Brix**  
Back to Your Roots Producers Conference, Edmonton, Alberta, CAN
- 2024 **Energy in Agriculture**  
Soilcraft Regenerative Agricultural Conference, Coeur D'Alene, ID
- 2024 **Plant Brix: testing and analyzing leaf Brix vs root Brix vs fruit Brix**  
Soilcraft Regenerative Agricultural Conference, Coeur D'Alene, ID
- 2024 **Insect Succession: not all insects attack plants at the same time**  
Soilcraft Regenerative Agricultural Conference, Coeur D'Alene, ID
- 2023 **Electrical Conductivity of Crop Soils**  
Back to Your Roots Producers Conference, Saskatoon, SK, CAN
- 2023 **Why Insects Do Not Attack Healthy Plants**  
Back to Your Roots Producers Conference, Saskatoon, SK, CAN
- 2023 **Plant Brix: testing and analyzing leaf Brix, root Brix, and fruit Brix**  
No-Till on the Plains, Wichita, KS
- 2023 **Understanding Plant Sap Analysis**  
No-Till on the Plains, Wichita, KS

- 2023 **Electrical Conductivity of Crop Soils**  
Soilcraft Regenerative Agricultural Conference, Pasco, WA
- 2023 **Why Insects Do Not Attack Healthy Plants**  
Soilcraft Regenerative Agricultural Conference, Pasco, WA
- 2022 **Fruit Pests and their Food Preferences**  
North American Fruit Explorers Virtual Conference
- 2022 **Electrical Conductivity of Crop Soils**  
Plant Nutrition Summit, Nutrien Ag Solutions, Loveland, CO
- 2022 **Why Insects Do Not and Cannot Attack Healthy Plants**  
Plant Nutrition Summit, Nutrien Ag Solutions, Loveland, CO
- 2022 **Taste in Aphids: a chemoreceptive protein analysis**  
Advancing Eco-Agriculture Webinar
- 2022 **Deciphering the Insect Olfactory Code**  
Advancing Eco-Agriculture Webinar
- 2022 **Toward a New Theory of Insect Olfaction**  
Advancing Eco-Agriculture Webinar
- 2022 **Problems with the Current Theory of Insect Olfaction**  
Advancing Eco-Agriculture Webinar
- 2022 **Entomologist Explains Why Insects do not Attack Healthy Plants**  
The Humanley Podcast with Daniel Roytas, Episode #60
- 2022 **The Magical Brix Number that Stops Pests- an exciting conversation with Dr. Tom Dykstra**  
The No Till Flowers Podcast with Jennie Love
- 2022 **Insects Don't Feed on Healthy Plants**  
Georgia Citrus Association Annual Conference, Tifton, GA
- 2022 **Measuring Soil Conductivity and Why Would We Do This?**  
No Till on the Plains Annual Conference, Wichita, KS
- 2022 **Insects and Brix: why only unhealthy plants are attacked. Part 2**  
No Till on the Plains Annual Conference, Wichita, KS
- 2022 **Insects and Brix: why only unhealthy plants are attacked. Part 1**  
No Till on the Plains Annual Conference, Wichita, KS
- 2022 **Using Insects as Indicators for Plant Health**  
National No-Tillage Conference, Louisville, KY
- 2022 **Insect/Plant Interactions Between 6 and 14 Leaf Brix**  
National No-Tillage Conference, Louisville, KY
- 2021 **A Century of Florida Citrus Production: Understanding Insect Pressure in Oranges.**  
Advancing Eco-Agriculture Webinar
- 2021 **Leaf Brix and Insect Herbivory**  
Advancing Eco-Agriculture Webinar
- 2021 **Managing Nutrition for Control of Aphids and Flea Beetles**  
Webinar with John Kempf (johnkempf.com)
- 2019 **"Hungary" Insects Only Attack Unhealthy Plants**  
Soil Health Conference, Budapest, Hungary
- 2018 **How Insect Pests Identify Unhealthy Plants with Tom Dykstra**  
Regenerative Agriculture Podcast- April

- 2017 **Farming Beyond the Textbooks**  
Back to Your Roots Annual Growers Meeting, Saskatoon, SK, CAN
- 2016 **An Overview of Brix**  
Back to Your Roots Annual Growers Meeting, Saskatoon, SK, CAN
- 2016 **Electrical Conductivity in Soil**  
Back to Your Roots Annual Growers Meeting, Saskatoon, SK, CAN
- 2016 **Gathering Energy**  
Back to Your Roots Annual Growers Meeting, Saskatoon, SK, CAN
- 2015 **Growing Citrus, Citrus Diseases, and Citrus Pests**  
Soil Works LLC Annual Sales Meeting, Phoenix, AZ
- 2015 **Electrical Conductivity in Agriculture**  
Soil Works Annual Grower's Workshop, Yankton, SD
- 2015 **Electrical Conductivity in Agriculture**  
**Brix Chart- generalized markers**  
Back to Your Roots Annual Growers Meeting, Saskatoon, CAN
- 2015 **What Insects Tell Us About the Health of Our Soils**  
Soil Health Symposium, Saint-Hyacinthe, Quebec, CAN
- 2014 **Why We Use Brix to Test Plants**  
**Plant Elevators: movement of plant sap**  
**Heavy Metals- but not the big-hair bands**  
Soil Works Annual Sales Meeting, Scottsdale, AZ
- 2014 **Toward a New Bioelectromagnetic Theory of Insect Olfaction**  
University of Florida-ECE seminar series, Gainesville, FL
- 2014 **Brix, Aiming For a Higher level of Sugar, and What Does That Mean?**  
Soil Works Annual Grower's Workshop, Yankton, SD
- 2014 **Why Plant Feeding Insects Need Unhealthy Plants to Survive**  
IFAO Conference, London, Ontario, CAN
- 2014 **Harnessing Earth's Electromagnetic Fields**  
Bio-Ag Symposium, Spokane, WA
- 2014 **Introducing Brix to Farmers and Energy in Agriculture**  
Back to Your Roots- Sales Meeting, Saskatoon, CAN
- 2013 **Energy in Agriculture**  
Soil Works LLC Annual Sales Meeting, Colorado Springs, CO
- 2013 **Insects to Unhealthy Plants and Energy in Agriculture**  
Uncle Matt's Organic, Clermont, FL
- 2013 **Insects to Unhealthy Plants**  
Symbionature, St. Remi, Quebec, CAN
- 2013 **Energy in Agriculture**  
Soil Works LLC Annual Spring Meeting, Yankton, SD
- 2013 **Insects to Unhealthy Plants**  
Symbionature, Florida, NY
- 2013 **Insects to Unhealthy Plants**  
Back to Your Roots Workshop, Regina, SK, CAN
- 2012 **The Business of Scientific Patents**  
MAN 4723, "Strategic Management",  
Warrington College of Business Administration, University of Florida

- 2012 **What Do Insects Like To Eat?**  
“Soil Safari”, Organized by Soil Works, LLC, Yankton, SD
- 2012 **Challenging Paradigms in Insect Olfaction: New Evidence**  
Annual Conference of the Society for Scientific Exploration  
Boulder, CO
- 2012 **Why Insects Do Not Eat Healthy Plants**  
Soil Works, LLC, Annual Spring Meeting, Yankton, SD
- 2012 **Paramagnetism in Agriculture**  
Back to Your Roots Workshop, Regina, SK, CAN
- 2012 **Insects Do Not Like Healthy Plants**  
Back to Your Roots Workshop, Regina, SK, CAN
- 2011 **Insect Olfaction: Beyond the Textbooks**  
Think Tank organized by Dr. Arden Andersen, Tampa, FL
- 2009 **Stem Cell Research: Adult vs. Embryonic**  
CUF meeting organized by attorney Thomas Pernice
- 2009 **Can Lepidopterans Smell Odors like Scientists Claim?**  
McGuire Center for Lepidoptera, Gainesville, FL
- 2008 **Can the Lock and Key Model Explain Insect Olfaction?**  
Utah Valley University, Orem, UT
- 2008 **Towards a Decoding of Insect Olfaction**  
Utah Valley University, Orem, UT
- 2005 **Formation of a Scientific Theory: lessons learned from insect olfaction**  
Society for Scientific Exploration Annual Meeting, Gainesville, FL
- 2003 **How Effective are Stored Product Moth Traps?**  
Heat Treatment Workshop, Manhattan, KS
- 2001 **Paramagnetism Roundtable- State of the Art**  
Panel discussion w/Philip S. Callahan, Ph.D., Malcolm Beck, Gary Wilson  
Acres USA National Conference, Minneapolis, MN
- 1999 **Biological Antennae**  
Sponsored by Nikken, Inc., Titusville, FL
- 1999 **Paramagnetism and the Shatnez**  
Sponsored by Nikken, Inc., Titusville, FL
- 1998 **Battling Pests with Electromagnetics**  
Acres USA National Conference, Minneapolis, MN
- 1998 **Paramagnetism**  
Bioneers Annual Conference, San Francisco, CA
- 1997 **Fleas and Man: an Attractive Relationship**  
Knights of Columbus Meeting, Gainesville, FL

#### **CONFERENCE PRESENTATIONS (non-invited)**

- 2016 **Two Competing Theories of Insect Olfaction Must Both Be Rejected**  
International Congress of Entomology  
Orlando, FL

- 2011 **Interaction in the Sensillae between Pheromone Binding Proteins (PBPs) and the Dendritic Membrane**  
Annual Meeting of the Entomological Society of America  
Reno, NV
- 2010 **Insect Olfaction in Relation to Protein Diffusion Coefficients**  
Annual Meeting of the Entomological Society of America  
San Diego, CA
- 2010 **Insect Olfaction and the Electrostatic Effect**  
Annual Meeting of the Association for Chemoreception Sciences  
St. Petersburg, FL
- 2009 **Pheromone Deposition on Insect Sensilla- electrostatics**  
Annual Meeting of the Entomological Society of America  
Indianapolis, IN
- 2009 **Cat Flea Larvae (*Ctenocephalides felis*) are Disrupted by Stray Electromagnetic Fields Emanating from Appliances**  
Annual Meeting of the Entomological Society of America  
Indianapolis, IN
- 2009 **Disproving the Current Theory of Insect Olfaction: temporal evidence**  
Society for Scientific Exploration Annual Meeting  
Charlottesville, VA
- 2009 **Movement of Pheromone inside Insect Olfactory Sensillae**  
Annual Meeting of the Association for Chemoreception Sciences  
Sarasota, FL
- 2008 **How Readily Does Pheromone Migrate Within the Sensilla?**  
Annual Meeting of the Entomological Society of America  
Reno, NV
- 2008 **Protein Semiconductors in Relation to Insect Olfaction**  
Society for Scientific Exploration Annual Meeting  
Boulder, CO
- 2008 **Insects and Plant Brix**  
Southeastern Branch Meeting of the Entomological Society of America  
Jacksonville, FL
- 2007 **How Quickly Can Pheromones Enter an Insect Sensilla?**  
Annual Meeting of the Entomological Society of America  
San Diego, CA
- 2007 **Insects and Sick Plants**  
Society for Scientific Exploration Annual Meeting  
East Lansing, MI
- 2007 **Can Dielectric Antenna Theory Help Explain Insect Olfaction**  
Society for Scientific Exploration Annual Meeting  
East Lansing, MI
- 2007 **Movement of Pheromone into Insect Olfactory Sensillae**  
Annual Meeting of the Association for Chemoreception Sciences  
Sarasota, FL

- 2007                   **Electromagnetic Fields Influence Behavior in Cat Flea Larvae**  
Southeastern Branch Meeting of the Entomological Society of America  
Knoxville, TN
- 2006                   **Problems with the Current Theory of Insect Olfaction**  
Annual Meeting of the Entomological Society of America  
Minneapolis, MN
- 2006                   **Problems with the Current Theory of Insect Olfaction**  
Southeastern Branch Meeting of the Entomological Society of America  
Wilmington, NC
- 2006                   **Can Dielectric Antenna Theory Help Explain Insect Olfaction**  
Annual Meeting of the Association for Chemoreception Sciences  
Sarasota, FL
- 2004                   **The Electromagnetic Hypothesis of Olfaction: a study of the  
mechanisms and an answer to the enantiomer debate**  
Society for Scientific Exploration Annual Meeting, Las Vegas, NV
- 2003                   **Cat Flea Larvae, *Ctenocephalides felis*, Exhibit a Strong Taxis  
Response to a Human Stimulus**  
Annual Meeting of the Entomological Society of America  
Cincinnati, OH
- 2002                   **A Novel Trap for Stored Product Moths**  
Annual Meeting of the Entomological Society of America  
Fort Lauderdale, FL
- 2002                   **The Electromagnetic Hypothesis of Olfaction**  
Society for Scientific Exploration Annual Meeting  
Charlottesville, VA
- 2000                   **Anomalous Field Detection in Insects**  
Society for Scientific Exploration Annual Meeting  
London, Ontario CAN
- 1994                   **Least Toxic Pest Control of Fleas**  
SW Florida Professional Pest Control Operators and  
Florida Pest Control Association (4 diff. counties)
- 1994                   **Beneficial Insects**  
Identification of Urban Pests seminar  
University of Florida, Gainesville, FL
- 1994                   **General Insect Identification**  
Identification of Urban Pests seminar  
University of Florida, Gainesville, FL

## **SELECTED CONSULTING**

- 2024                   **Green Lightning**, Kentucky  
Agricultural, Bioelectromagnetic, and Entomological Consulting
- 2024                   **Soilcare**, Ontario, Canada  
Agricultural, Entomological, and Bioelectromagnetic Consulting



2023 **Silversands Grenada** , West Indies  
Entomological Consulting

2023-present **Sasso & Sasso, P.A.**, Winter Park, FL  
Entomological Consulting

2023-present **Soilcraft, Inc.**, Zillah, WA  
Entomological and Agricultural Consulting

2022-2023 **Nutrien Ag Solutions**, Loveland, CO  
Entomological and Bioelectromagnetic Consulting

2022 **Citrus Distillers, LLC**, Jacksonville, FL  
Entomological Consulting

2021 **Cole, Scott, & Kissane**, Fort Lauderdale, FL  
Entomological Consulting

2021 **Kite Realty Group**, Delray Beach, FL  
Entomological Consulting

2021-2024 **Advancing Eco-Agriculture**  
Entomological, Agricultural, and Bioelectromagnetic Consulting

2020-present **Carlton Fields**, Tampa, FL  
Entomological Consulting

2020-2022 **Habitat for Humanity- Hillsborough County**  
Entomological Consulting

2020 **PCL Construction**, Orlando, FL  
Entomological Consulting

2020 **JW Marriott**, Orlando, FL  
Entomological Consulting

2020 **Shumaker, Loop & Kendrick, LLP**, Tampa, FL  
Entomological Consulting

2019-2020 **Butler, Weihmuller, Katz, Craig LLP**, Tampa, FL  
Entomological Consulting

2019 **Qualitree Propagators Inc**, Rosedale, BC, Canada  
Entomological Consulting

2019 **IMS Expert Services**  
Entomological Consulting

2019 **Demeter Biosystems**, Budapest, Hungary  
Entomological and Agricultural Consulting

2019 **Boyd & Jenerette, P.A.**, Orlando, FL  
Entomological Consulting

2019 **Jaszczuk P.C. Attorneys**, Chicago, IL  
Entomological Consulting

2019 **Slotin Law, LLC**, Tampa, FL  
Entomological Consulting

2019 **Kovar Law Group**, Tampa, FL  
Entomological Consulting

2018-present **Cole, Scott, Kissane, P.A.**, Miami, FL  
Entomological Consulting

2018 **PMA Companies (Goya Foods)**, Blue Bell, PA  
Entomological Consulting

2016 **Iafrate Family of citrus growers**, Dade City, FL  
Agricultural Consulting

2016 **Beetle infestation at local residence**, Gainesville, FL  
Entomological Consulting

2014-2015 **Cole, Scott & Kissane, P.A.**, Jacksonville and Fort Lauderdale  
Entomological Consulting

2014 **LifeWave**, San Diego, CA  
Bioelectromagnetic Consulting

2013-2015 **Symbionature USA**  
Entomological and Agricultural Consulting

2012-present **Soil Works, LLC**, Yankton, SD  
Entomological, Agricultural, and Bioelectromagnetic Consulting

2012-present **Back to Your Roots**, Saskatchewan, CAN  
Entomological, Agricultural, and Bioelectromagnetic Consulting

2011-present **Uncle Matt's Organic.**, Clermont, FL  
Entomological Consulting

2005 **Benjamin, Certain & Lomax, P.A.**, Orlando, FL  
Entomological Consulting

1999-2000 **Midlands Claim Administrators**, Oklahoma City, OK  
Entomological Consulting

## TEACHING EXPERIENCE

2012 **Lecturer (guest)**, "*The Business of Scientific Patents*"  
MAN 4723- Strategic Management  
University of Florida

2007-2014 **Lecturer (guest)**, "*Insect Olfaction*"  
GMS 6074- Comparative and Evolutionary Neurobiology  
University of Florida

1999-2014 **Laboratory Coordinator (guest)**, *Insect Neurobiology*  
GMS 6074- Comparative and Evolutionary Neurobiology  
University of Florida

2002-2006 **Laboratory Coordinator (guest)**, *Insect Behavior*  
ENY 3005- Principles of Entomology  
University of Florida

1999 **Lecturer (guest)**, "*The Nervous System of Insects*"  
GMS 6074- Comparative and Evolutionary Neurobiology  
University of Florida

1992-1993 **Course Instructor**  
ENY 3005- Principles of Entomology  
University of Florida

1991-1992 **Guest Lecturer**, "*The Nervous System*"  
ENY 3005- Principles of Entomology  
University of Florida

1990-1992      **Laboratory Coordinator,**  
ENY 3005- Principles of Entomology  
University of Florida

1989            **Co-Laboratory Coordinator**  
ENTOM 212- Insect Biology  
Cornell University

## **EXTENSION EXPERIENCE**

2020            **Guest Speaker "Insects and Society"**  
Homeschool Group in North Central Florida, Starke, FL

2016-2018      **Judge for local Science Fair**  
Ocala homeschoolers, Queen of Peace Hall, Ocala, FL

2011            **Supervise cockroach dissection**  
Requested by UF Neuroscience Club (15 students)

2008            **Guest speaker at AChemS sponsored event regarding olfaction**  
G.Wiz- The Hands on Science Museum, Sarasota, FL

2007            **Guest speaker at grand opening of RoboBugs, the exhibit**  
Museum of Science and Discovery, Fort Lauderdale, FL

1998            **Making an Insect Collection**  
Hansen Nature Center, Tinker Nature Park, Rochester, NY

1998            **Bugs, Beetles and Butterflies**  
Hansen Nature Center, Tinker Nature Park, Rochester, NY

1998            **Business Representative**  
Williston Middle School- Career Day, Williston, FL

1995            **Guest speaker**  
Wayne Middle School, Wayne, NY, Presentations in Entomology

1995            **Tour Guide**  
UF Entomology & Nematology Department  
For: ARC- Association for Retarded Citizens

1995            **Video Narrator and Co-Producer, *Beneficial Insects***  
University of Florida Publication # SV 436  
Institute of Food and Agricultural Sciences (IFAS)

1995            **Video Narrator and Co-Producer, *Mistaken Identities***  
University of Florida Publication # SV 458  
Institute of Food and Agricultural Sciences (IFAS)

1995            **Video Narrator and Co-Producer, *Structural Pests***  
University of Florida Publication #SV (discontinued)  
Institute of Food and Agricultural Sciences (IFAS)

1994            **Guest speaker**  
Franklin Douglas Middle School, Rochester, NY  
Entomology presentations

1994            **Guest Speaker**  
UF Entomology & Nematology Department  
Presentation followed by Q&A- 7th-8th grade visiting students

- 1994                   **Re-certification Training Program**  
                           SW Florida Professional Pest Control Operators and  
                           Florida Pest Control Association (4 presentations)
- 1994                   **Extension Entomologist**  
                           Insect Identification Laboratory  
                           University of Florida, Dept. Entomology & Nematology
- 1994-present       **Entomological Presentations to local schools (as requested)**  
 1993                   **Special invited presenter**  
                           Entomology presentations, November 12, 1993  
                           UF Museum of Natural History, 3rd-5th graders

## PUBLICATIONS

- Dykstra, T.M.** (2024) Monitoring Leaf Brix Levels for Insect-Resistant Plants. Green Cover Soil Health Resource Guide, 10<sup>th</sup> Ed. Pp. 28-29.
- Dykstra, T.M.** (2020) Insects: Nature's Garbage Collectors. In *Quality Agriculture*, J. Kempf ed., Chap. 10, pp. 185-210.
- Dykstra, T.M.** (2019) Picky-Eater Insects Pass on High Brix Plants. Acres USA, Sept 2019. 3pp.
- Dykstra, T.M.** (2010) Insects and the Speed of Smell Problem. *Edge Science* 4:9-13.
- Dykstra, T.M.** (2000) Can Insects Detect Biofields? *MISAHA newsletter*, 28-29:14-18.
- Dykstra, T.M.** (2000) Paramagnetic Effects on Plant Growth. *Acres USA*, 30(9):20-21.
- Dykstra, T.M.** (2000) Revised and updated 25<sup>th</sup> Anniversary of *Tuning in to Nature* by Philip S. Callahan, 240 pp, Acres USA. Originally published by Devin-Adair, Old Greenwich, CT
- Dykstra, T.M.** (1997) A Behavioral Study of Cat Fleas, *Ctenocephalides felis*, and their response to various stimuli. Ph.D. Dissertation, University of Florida, 290 pp.
- Nation, J.L., B.J. Smittle, K. Milne, and **T.M. Dykstra** (1995) Influence of irradiation on development of Caribbean Fruit Fly (Diptera: Tephritidae) larvae. *Ann. Entomol. Soc. Am.* 88(3):348-352.
- Dykstra, T.M.** (1995) Insect Identification. Chapter in: *Pests in and Around the Florida Home*. Publication # SP 134, Institute of Food and Agricultural Sciences, University of Florida
- Dykstra, T.M.** (1994) Pheromonotropic activity in the abdominal nerve cord of the tobacco hornworm, *Manduca sexta*. M.S. Thesis, University of Florida, 80 pp.

## CONFERENCES ORGANIZED

- 2012                   **Society for Scientific Exploration Annual Conference**  
                           Program Committee Chairman  
                           Boulder, CO, June 20-23, 2012
- 2005                   **Society for Scientific Exploration Annual Meeting**  
                           Local Organizer, Program Committee member  
                           Gainesville, FL, May 18-21, 2005

1994                    **Identification of Urban Pests**  
Local Organizer, Program Coordinator  
University of Florida  
Gainesville, FL, March 9-11, 1994

#### **INVITED BOOK REVIEWS**

2009                    *The Body Electric* by Robert Becker, M.D. and Gary Seldon (1985) *Edge Science*,  
October 2009, pp. 13-14 (republished in abridged version)

2009                    *The Body Electric* by Robert Becker, M.D. and Gary Seldon (1985) *J. Sci. Explor.*  
23(2):232-236. Request from the Society for Scientific Exploration on the  
occasion of Dr. Becker's passing.

#### **NON-AUTHORED PUBLICATIONS**

2004                    Grossman, J. (2004) Building a Better Moth Trap. *The World and I*, April issue.  
pp. 142-149.

#### **MANUSCRIPTS REVIEWED**

2002                    *Annals of the Entomological Society of America* (1)  
2005                    *Journal of Economic Entomology* (1)

#### **TRADESHOW BOOTHS ATTENDED**

2016                    **Acres USA Conference and Tradeshow**  
Representing Soil Works LLC  
December 1-2, 2016, Omaha, NE

2013                    **Citrus Expo Tradeshow**  
Representing Preferred Source and Mycorrhizal Applications, Inc.  
Products: various  
August 14-15, 2013, Ft. Myers, FL

2011                    **MOSES Annual Conference**  
Representing Technology SG  
Product: innTrap®  
February 24-26, 2011, Lacrosse, WI

2010                    **Entomological Society of America**  
Representing Technology SG  
Product: innTrap®  
December 12-16, 2010, San Diego, CA

2010

**Acres USA Annual Conference**  
Representing Technology SG  
Product: innTrap®  
December 9-11, 2010, Indianapolis, IN

**AQUIRED SKILLS & KNOWLEDGE (RESEARCH)**

Entomology	Olfaction	Stored Products
Bioelectromagnetics	Proteomics/Genomics	Pest Management
Consultant/Expert Witness	Structural Inspections	Infrared Spectroscopy
Statistical Analyses	Antennas	Gas Chromatography
Insect Rearing	RRM software	Emission/Absorption Spectra
Physiology	Neurobiology	Biochemistry/Organic Chem.
Internet Research	Biological Receptors	Reverse Engineering
Brix Refractometers	Microscope	Dissections
Research Design & Analysis	FT-IR spectroscopy	Liquid Chromatography
Western Blots	Expert Witness	Electronics
Plastic molds	Troubleshooting	Centrifuges
Evaporators	Data Mining/Meta-Analysis	EC meter
Paramagnetism	Soil penetrometers	SDS-PAGE

**ACQUIRED SKILLS (BUSINESS)**

Professional Speaking	Product development	Communication Skills
Writing Patents	Industry Consultant	Technology Transfer
Multi-team Organizer	Supervising employees	Conference Organizer
MS OFFICE proficient	Cataloguing/Organizing	Typing (72 wpm)

**HONORARY/AWARDS/ELECTED POSITIONS**

2011-2012	<i>Panel Judge (Industry member)</i>	Entomological Society of America- Biochemistry, Toxicology and Molecular
2005-2008	<i>Secretary</i>	Society for Scientific Exploration
2005-2007	<i>Councilor</i>	Holy Faith Catholic Church
2004	<i>All-American (4x)</i>	US Masters Swimming
2000-present	<i>Adjunct Faculty Member</i>	Union College
2000-2001	<i>Councilor</i>	Society for Scientific Exploration
1997-1999	<i>Councilor</i>	Holy Faith Catholic Church