Curriculum vitae

Prof. Walid Kaakeh

General and Personal Information:

Name: Walid Kaakeh

Place and Date of Birth: Aleppo, Syria.

Number of Dependents: Four. Marital Status: Married.

Current Address: Mersin, Turkey

Mobile: +905357482555 E-mail: wkaakeh@hotmail.com

Legal Permanent Address: Turkey and UAE **Languages**: English & Arabic (excellent levels)



University Education:

Ph.D. in Entomology (College of Agriculture) University – 1989

Virginia Polytechnic Institute and State University (VPI & SU or Virginia Tech), Blacksburg, Virginia, United States of America.

M.S. in Entomology (College of Agriculture) - 1986

West Virginia University (WVU), Morgantown, West Virginia, USA.

B.Sc. in Agricultural Sciences - 1981

Faculty of Agriculture, Aleppo University, Syria

Scientific Career:

Overall Areas of Interest:

Development and management of modern, innovative, and proactive research, teaching, and extension programs addressing the present and future needs of the surrounding agricultural, environmental health, food safety, natural resources, and urban communities.

Specific Areas of Interests:

- 1. Manage agricultural projects under agricultural and landscape settings.
- 2. Develop integrated pest management programs for fruit and nut pests on peach, apple, pecan, date palm and landscapes, as well as programs for urban, industrial, and public health pests in residences and historic buildings.
- 3. Reduce the use of chemical insecticides by finding alternative management tactics (pheromones, traps, bio-pathogens, etc.).
- 4. Study the impact of chemicals released to the pest environment and food safety.
- 5. Conduct research projects in insect biology, ecology and behavior, insect plant interaction, insect and plant resistance, honeybees, and biological control.
- 6. Study of pest resistance to pesticides and residue problems in food production, and provide solutions through rapid and molecular detection techniques.
- 7. Study the diversity of arthropods through survey in different ecosystems.
- 8. Study various aspects of pest ecology, such as pest distribution and abundance.

- 9. Develop management programs for soil pesticides.
- 10. Development of a national educational and awareness programs..
- 11. Teach various subjects such as basic and applied entomology, invertebrate zoology, environmental pollution, morphology and physiology, pesticide toxicology, ecology and behavior, introductory biology, biological principles and diversity, biological evolution, etc.
- 12. Develop training program specialized in forensic entomology, chemistry, and toxicology.

Freelance Senior Consultant - November 2022 - Present

Over 35 years of experience in consultancy, research, teaching, training, and extension in the field of agriculture, environment, food safety, and forensic sciences.

General Director & Senior Consultant / Trainer – October 2019 – October 2022. Global

Experts (GE) for Environmental and Agricultural Consultancy. Al-Ain, UAE. Activities of GE (training, consultancy, research, studies, and scientific translation) are included in the company's brochure

Research and consultancy activities include:

- 1. Date Palm Production and Protection
- 2. Integrated Pest Management Systems and Strategies
- 3. Expert Witness in Legal Investigation in the Field of Entomology and Pesticides
- 4. Pest & Pesticide Management Databases
- 5. Plant Protection in Landscape Environment
- 6. Plant Protection in Organic Farming
- 7. Pest Control Plans for Developers of Real Estate and Historical Buildings
- 8. Food Safety and Sanitation Inspections
- 9. Pesticide Regulation and Legislation
- 10. Education and Training Programs on Pest Management & Pesticides
- 11. Soil & Water Pollution.
- 12. Forensic Entomology.

Training Courses cover the following subjects:

- 1. Integrated Pest Management
- 2. Agricultural and Horticultural Crops
- 3. Landscape Pest Management
- 4. Urban and Public Health Entomology
- 5. Safe and Effective Use of Pesticides
- 6. Health and Safety
- 7. Environmental Sciences (Wastes, Pollution, Risk Assessment, etc.)
- 8. Environmental & Agricultural Project Management
- 9. Program Planning in Agricultural and Environmental Education.
- 9. Forensic Entomology.

<u>Date Palm Specialist / Agricultural Environment Specialist</u> – Feb 2016 – Sept. 2019. Abu Dhabi Agriculture and Food Safety Authority (*previously* Abu Dhabi Food Control Authority) – Abu Dhabi, UAE

Major Responsibilities

1. Managing prevention and management programs for date palm pests that effectively protect

Abu Dhabi's date palm plantations.

- 2. Follow and assist in implementing good agriculture practices in plant production farms
- 3. Assist in implementing agricultural policy in the Emirate of Abu Dhabi
- 4. Assist in applying quality assurance programs in plant production farms.
- 5. Carry out monitoring pesticide residues programs to ensure food safety.
- 6. Participate in implementing preventative measures to guard against the introduction and spread of organisms harmful to plants or plant products within the Emirate.
- 7. Follow and assist in applying strategies, processes and action plans involved in early detection and eradication of serious agricultural pests.
- 8. Follow and assist the integrated pest prevention methods using agricultural, mechanical, legislative, biological and chemical controls to ensure safe food and reduction of pest population.
- 9. Assist in coordinating activities of properly trained and equipped response teams.
- 10. Act to improve the staff scientific background by different means such as lecturing and practical work.
- 11. Participates in scientific activities as conferences and symposiums
- 12. Attend assigned meetings, committee meetings and conferences, as required
- 13. Document and update work processes and procedures.
- 14. Keep abreast of professional developments, new techniques and current issues, through continued education and professional growth.
- 15. Develop and elaborate action plans involved in section scope of work.

Adjunct Professor - Academic Years 2011-2012 & 2014-2015.

Member of the Environmental Health and Safety Advisory Board_(2018-Present) – Abu Dhabi University, Abu Dhabi, UAE.

Teaching appointments to teach the following courses:

Teaching Assignment:

- 1. Global Environment (ENS310).
- 2. Environment Health Regulation and Compliances (EHS415).
- 3. Introduction to Soil Sciences (CIV203).
- 4. Environmental Seminar (ENS299).

Course Development:

- 1. Preparation of expected learning outcomes and associated measures for each course.
- 2. Describe the learning processes for each course.

Web-Based Learning Environments:

Web-based learning environments are believed to be an attractive mode of instruction. I have experience in using:

- 1. electronic learning tools such as <u>Blackboard</u> combined with traditional classroom teaching.
- 2. Oracle's Peoplesoft Enterprise Student Administration- Faculty Portal.

General Director & Senior Consultant / Trainer – May 2010 to Jan. 2016.

Global Experts (GE): Environmental and Agricultural Consultancy & Training, Al-Ain, UAE. Activities of GE (training, consultancy, project management, research, studies, and scientific translation).

Environmental Consultant (Entomology & Pesticide Toxicology) - 8/2007 to 9/2009.

Entec Europe Ltd., Al-Ain, UAE.

Responsibilities:

(1) Member of the Management Core Team:

- ✓ Analyse Tender Offers and recommend contractors for various Contracts outsourced by Al Ain Municipality (approx. 2 billion dirham).
- ✓ Review progress reports from Managers of the following outsourcing contracts: (pest control and animal impounding services, clinical waste incinerator plant and fallen stock incineration plant, landfill compound and crushing unit, sorting station and compost plant, and municipal waste collection and transportation, street sweeping and cleaning services).

(2) Public Health Pest Control Consultant:

Oversee all pest control activities and assist the Contract Managers and Engineering Supervisors to ensure that contractors will comply with the tender's requirements.

<u>Professor of Entomology & Pesticide Toxicology</u> - 8/2006 to 8/2007. Department of Arid Land Agriculture, College of Food & Agriculture, P. O. Box 17555, <u>United Arab Emirates University</u>, Al-Ain, UAE.

Research responsibilities:

- (1) Develop integrated pest management programs for major economic insects.
- (2) Study the diversity of arthropods through survey in different ecosystems.
- (3) Study various aspects of pest ecology, such as pest distribution and abundance.
- (4) Study of pest resistance to pesticides and residue problems in food production.
- (5) Develop and evaluate environmentally safe and effective pesticide formulations and semiochemicals, and study the impact of chemicals released to the pest environment.
- (6) Development of management and educational programs for pesticides in the UAE subsurface environment.
- (7) Conduct research projects in the area of insect biology, behavior, insect-plant interaction, insect and plant resistance, and biological control.
- (8) Plan, design, implement and analyse toxicity studies and insecticide efficacy trials on various pests in different habitats.
- (9) Develop innovative bioassay procedures for various pesticide groups.

Teaching responsibilities:

Strategic Planning & Academic Program Development and Management Courses taught (language):

Undergraduate courses:

- (1) Principles of Plant Protection (Arabic & English)
- (2) Integrated Pest Management (English)
- (3) Economic Entomology (Arabic)
- (4) Disease & Insect Pests (English)
- (5) Pesticides (English)
- (6) Weed Science (Arabic)
- (7) Agricultural Technology Transfer (English)
- (8) Food Security in the Arab World (Arabic; General Education Course)
- (9) Man & Environment (Arabic; General Education Course)

Graduate courses:

- (1) Agricultural Waste Management (English *Graduate Level*)
- (2) Pesticides Pollution and Toxicity (English *Graduate Level*)
- (3) Soil & Water Pollution (English *Graduate Level*)

Laptop Developed Courses (language):

- (1) Principles of Plant Protection (English)
- (2) Disease & Insect Pests (English)

Service responsibilities:

- (1) to participate in all IPM field activities of major pests including workshops, short courses, and symposium.
- (2) to develop an educational and awareness program on the safe use of pesticides.
- (3) to work closely with all governmental agencies and participate in various governmental committees.
- (4) to publish extension document of research results for major commodities in UAE.

<u>Associate Professor</u> - 5/2000 to 5/2005. United Arab Emirates University, Al-Ain, UAE. Responsibilities were listed above at the rank of a Professor.

<u>Assistant Professor</u> - 9/1997 to 5/2000. United Arab Emirates University. Responsibilities were listed above at the rank of a Professor.

<u>Manager of Sponsored Product Research</u> - 5/1993 to 8/1997. Center for Urban & Industrial Pest Management, Purdue University, West Lafayette, Indiana (USA).

Research & Administrative Responsibilities:

- (1) independently provide leadership in planning, organizing, and implementing research projects for the urban entomology program at the Center,
- (2) to plan, design, implement and analyse toxicity studies and insecticide efficacy trials;
- (3) develop innovative bioassay procedures for insect growth regulators and entomopathogenic fungi studies,
- (4) to actively secure new sources of external funding, promote projects, and coordinate research interactions with corporate sponsors and universities,
- (5) to supervise all aspects of research personnel,
- (6) to maintain liaison with local and federal agencies and to cooperate with municipal Housing Authority to secure field study sites,
- (7) to draft protocols/proposals, submit and manage budgets and expenditures.
- (8) to write concise technical reports and other documents of research results.
- (9) to develop publications from research results for scientific journals, insecticide testing reports, trade journals, and
- (10) to communicate research results and exchange of information in oral presentations to the entomological research community.

Extension Responsibilities:

- (1) to participate in the Annual Pest Control Conference.
- (2) to provide current research results to pest control operators in Indiana.
- (3) to publish research articles in technical and trade journals.
- (4) to present research results at various Indiana associations (pest control and vector control associations).

Post-Doctoral Research Associate _ 5/1990 to 5/1993. Department of Entomology,

Coastal Plain Experiment Station, University of Georgia, Tifton, Georgia (USA).

Research Responsibility:

- (1) Plan, design, and implement field, greenhouse, and laboratory research projects to determine the impact of red imported fire ant, aphidophagous insects, cover crops, and insecticides on a complex of pecan aphids.
- (2) Conduct research projects on:
 - foraging of fire ants and identifying natural lethal products in cover crops for ant control.
 - estimation of life parameters and probing behavior of pecan aphids on pecan, and cowpea and pea aphids on cover crops,
 - interactions of predatory coccinellids with pecan, cowpea, and pea aphids, impact of late season pecan aphid population on yield, quality, foliage retention, and return bloom of pecan varieties, and
 - susceptibility of pecan cultivars to pecan aphids.

Extension Responsibility:

- (1) to participate in IPM field activities (e.g., Training Summer Tour and Field Day, and Pecan Pest Management Scout School)..
- (2) to provide current research results to farms in Georgia.
- (3) to publish research articles in trade and technical journals.

<u>Post-Doctoral Research Associate</u> – 5/1989 to 5/1990. Dept. of Entomology, VPI Experiment Station, VPI & SU – Blacksburg, VA.

Research Responsibilities:

Participate in a research program on low input pest management on apple, this included: the effect of ground cover modification and mating disruption of leafrollers and codling moth on arthropod community structure, and (2) the development and implementation of monitoring and control strategies for controlling fruit pests.

Extension Responsibility:

Participate in IPM field activities, and provide current research results to farms in Virginia.

Prizes and Awards:

International Awards:

- 1) *Khalifa International Award for Date Palm and Agriculture Innovation*" (Influential Figure Category) **2021**. Abu Dhabi, UAE.
- 2) Rashed bin Hameed Award for Education and Science" 2001. "Effects of Insecticides and Fungicides in the Arab Gulf Region". Award was sponsored by Um-Al-Momenin Organization, Ajman, UAE.
- 3) Rashed bin Hameed Award for Education and Science" 2004. "Date Palm Pests in Arab Gulf Region".

 Award sponsored by Um- AlMomenin Organization, Ajman, UAE.

International Recognition:

My biography profile is included in:

- 1) The 2005 Edition of "Who's Who in Science and Engineering".
- 2) The 2006 Edition of "Who's Who in the World".
- 3) The 2006 Edition of " Who's Who in Agricultural Education"

National Recognition:

- 1) Awarded the "<u>Best Non-Funded Research Article</u>" during the 6th Annual Research Conference, UAE University, Al-Ain, UAE; April 2005.
- 2) Recipient of the <u>First Rank Honor Award</u> (out of 221 students) as Outstanding Undergraduate Student (1977-1981), Aleppo University, Syria.

Research Funding:

A- Global Experts (May 2010- Present):

Consultancy Research projects conducted for private pest control and international pesticide manufacturing companies to evaluate new pesticides against agricultural pests in the UAE.

B- UAE University (September 1997-June 2007):

Completed Funded Research Project:

1. Title: Pesticide resistance and residue problems in Omani and UAE Vegetable Production, *Phase II*: Solution through rapid and molecular detection techniques and farmers awareness.

Type of Research: Cooperative interdisciplinary research.

Type of Funding: Internal and External.

Sponsor: UAEU and Sultan Qaboos University. **Investigation**: Principal Investigator (UAEU Team). **Period**: 2006-2009 (left UAEU in June 2007) **Amount of**

Funding: 68,000 USD.

2. Title: Evaluation of an Injector and Several Systemic Insecticides for the Control of the Red Palm Weevil.

Type of Funding: External.

Submitted To: Syngenta Co. (Switzerland).

Period: 2000-2001.

Investigation: Principal Investigator.

Amount of Fund Requested: 18,750 USD.

3. Title: A Pesticide Application in Vegetable Production and Subsequent Pesticide Resistance and Residue Problems in Oman and UAE. Type of Research: Cooperative interdisciplinary research.

Type of Funding: Internal and External.

Sponsor: UAE University in UAE and Sultan Qaboos University in Oman.

Investigation: Principal Investigator (UAE Team).

Period: 2004-2006.

Amount of Funding: 68,000 USD.

Refereed Publication: One.

4. Title: Extension Needs for Plant Protection Workers and Supervisors.

Type of Research: Individual. Type of Funding: Internal.

Sponsor: UAE University Research Council.

Investigation: Co-Investigator.

Period: 2003-2004.

Amount of Funding: 2,800 USD AED.

Refereed Publication: One.

5. Title: Evaluation of Confidor Systemic Insecticide for the control of red palm weevil:

Laboratory and Field Evaluation.

Type of Research: Individual. Type of Funding: External.

Sponsor: Bayer Middle East AgriPest Co. (a representative of Bayer Co.).

Investigation: Principal Investigator.

Period: 2001-2002.

Amount of Funding: 12,250 USD.

Refereed Publication(s): One.

6. Title: Survey, distribution of foraging populations in urban settings, and response of subterranean termites to treated woods and baits.

Type of Research: Individual. Type of Funding: Internal.

Sponsor: UAE University Research Council.

Investigation: Principal Investigator.

Period: 1999-2001.

Date of Funding: March 1999. **Amount of Funding**: 3,260 USD. **Refereed Publication(s)**: Three.

7. Title: The Fate of Pesticides in the UAE Subsurface Environment. Type

of Research: Cooperative interdisciplinary research. Type of

Funding: Internal.

Sponsor: UAE University Research Council.

Investigation: Co-Investigator.

Period: 1998-2002.

Date of Funding: March 1998. **Amount of Funding**: 55,700 USD. **Refereed Publication(s)**: One.

8. Title: Control of the Red Palm Weevil on Date Palm.

Type of Research: Interdisciplinary.

Type of Funding: Internal and External.

Sponsor: UAE University Research Council and the Department of Agriculture and

Livestock in Al-Ain.

Investigation:

Principal Investigator for the following projects:

- Developmental of a pheromone-based trapping system for the red palm weevil.
- Mass rearing of the date palm weevil on artificial diets for laboratory studies.
- Life cycle of the red palm weevil.

Co-Investigator for the following project:

- Survey of the red palm weevil infestations in Al-Ain area.

Period: 1997-2001.

Date of Funding: September 19979. **Amount of Funding**: 130,400 USD. **Refereed Publication(s):** Five (5)

Completed Non-Funded Research Projects:

(1) Title: Development of Insect Attractants for Organic Agriculture. **Period**: 2004-2007. (2) Title: Insect Trapping System and Effect of Trap Color. **Period**: 2003-2005. (3) Title: Diversity of Arthropods in

the UAE: national Survey. **Period**: 2001-2005.

(2) Title: Abundance and foraging intensity of subterranean termites in date palm

plantations.

Period: 2004-2005.

(3) Title: Management of the Lesser Date Moth in Date Palm Plantations.

Period: 2004-2006.

C-Purdue University, Indiana, USA (1993 – 1997):

Research Projects: Sixty (60) laboratory and field research projects on the biology and integrated management of German and American cockroaches.

Type of Research: Individual.

Type of Funding: External (gifts, contract, and research grants).

Sponsors: 20 international chemical and pesticide manufacturing companies to support fundamental research at the Center for Urban & Industrial Pest Management.

Investigation: Principal Investigator **Period**: 1993-1997.

Amount of Funding: Over 400,000 USD.

Refereed Publication(s): Fifteen (15) + 60 Reports.

D- University of Georgia, Georgia, USA (1992):

Title: study the interaction of pecan aphids, red imported fire ants, and predators on warm and cool season's cover crops.

Type of Research: Individual. Type of Funding: External. Sponsor: USDA (USA) Investigation: Co-Investigator

Period: 1992-1993.

Amount of Funding: 82,000 USD. **Refereed Publication(s):** Three.

Teaching Career:

A - Courses:

Abu Dhabi University:

Undergraduate courses:

- (1) Global Environment (ENS310).
- (2) Environment Health Regulation and Compliances (EHS415).
- (3) Introduction to Soil Sciences (CIV203).

(4) Environmental Seminar (ENS299).

Course Development:

- 1. Preparation of expected learning outcomes and associated measures for each course.
- 2. Describe the learning processes for each course.

UAE University:

Undergraduate Courses taught (language):

- 2. Principles of Plant Protection (Arabic & English)
- 3. Integrated Pest Management (English)
- 4. Economic Entomology (Arabic)
- 5. Disease & Insect Pests (English)
- 6. Pesticides (English)
- 7. Weed Science (Arabic)
- 8. Agricultural Technology Transfer (English)
- 9. Food Security in the Arab World (Arabic; General Education Course)
- 10. Man & Environment (Arabic; General Education Course)

Graduate Courses taught (language):

- 1. Agricultural Waste Management (English *Graduate Level*)
- 2. Pesticides Pollution and Toxicity (English *Graduate Level*)
- 3. Soil & Water Pollution (English *Graduate Level*)

Teaching Textbook:

My translated book entitled :the Safe and effective Use of Pesticides" was used as a textbook for an Independent Study Course.

Strategic Planning & Academic Program Development and Management

- (1) University Academic Assessment & Program Review Committee Member (2005-present)
- (2) **Outcome Assessment Committee** Chair at the Department level (2001-present) and Member at the College level (2001-2002).
- (3) **Teaching Innovation Committee** Member (2001-2002).
- (4) Class Schedule and Academic Affairs Committee Coordinator at the Department level (2005-2006).

B - Guidance of Students:

UAE University:

- □ Postgraduate Research Project: Master degree research project entitled "Alternatives to Methyl Bromide for the Control of Saw-toothed Grain Beetles" (September 2006present)
- ☐ Graduation Research Projects: Served as a Research Advisor for ten students: Titles of the projects were:

Male students:

- 1. Preliminary survey of insects in the UAE.
- 2. Fate of pesticides in the soil of the UAE.
- 3. Fate of Marshal, a systemic insecticide, for the control of the red palm weevil.
- 4. Survey of insects in the Agricultural Sciences Faculty farm.
- 5. Estimation of whitefly and leafminer infestations on several vegetable crops.
- 6. Distribution and foraging territories and densities of colonies of the sand

termites.

Female students:

- 1. Evaluation and determination of quality of honey.
- 2. Performance of honeybee colonies in the production of honey and other products during the spring season.
- 3. The consumption and nutritional value of honeybee products (Survey).
- 4. The role of honeybee products in the prevention and cure of diseases (Survey).
- 5. Practical Field Training I Trained over 10 students on "the safe and effective use of pesticides" and "Pesticide Safety" (from 1999 to 2003).
- 6. Practical Field Training II Training program between the two semesters for the academic year 1999-2000 was completed for 13 students.
- Academic Advisor to 15 undergraduate students helped students in selecting their courses during their undergraduate years (1997-present).

Purdue University:

- Directed undergraduate students in special research assignment for credit in the "Special Project" Course (Spring and Summer 1994) at the Department of Entomology. Students were taught how to conduct an experiment, collect and analyze data, and write a summary report. Research titles were:
 - (1) Transfer of entomopathogenic fungi among German cockroaches.
 - (2) Residual persistence of insect growth regulators used for German cockroach control.

Publications

A - Scientific Articles Published (Peer-Reviewed Journals):

- 1. Mashaly, A., W. **Kaakeh**, M. Al-Khalifa, R. Al-Ajmi, E. Shaalan, L. Al-Shareef, F. Boulkenafet, and F. Al-Mekhlafi. **2022**. Standard Practices and Guidelines in Forensic Entomology. Arab Journal for Forensic Sciences and Forensic. 22: 131-157.
- 2. Mohammad, Z., R. Alajmi, M. Alkuriji, Dina Metwally, **W. Kaakeh**, N. Almeaiweed. **2021**. Role of *Chrysomya albiceps* (Diptera: Calliphoridae) and *Musca domestica* (Diptera: Muscidae) Maggot Crop Contents in Identifying Unknown Cadavers. J. Medical Entomology 58(1):93-98.
- 3. **Kaakeh**, W. **2016**. Assessing the use of agricultural information sources by the extension agents in the United Arab Emirates. Syrian Journal of Agricultural Research 3 (2), December 016
- 4. **Kaakeh**, W., F. A. Talukder, J. H. Al Dahmani, M. Maraqa, M. L. Deadman, S. A. AlJabri, A. Al-Saadi, A. A. Al-Raeesi, H. Al Hasan, L. Al-Subhi, and A. Bosamrah. **2007**. Assessment of pest and pesticide trends in vegetable crops in Sultanate of Oman and the United Arab Emirates. Pakistan Journal of Scientific and Industrial Research 50, 346-351.
- 5. **Kaakeh**, W. **2006**. Relative abundance and foraging intensity of subterranean termites in date palm plantations in Abu Dhabi Emirate, the UAE. Emirates Journal of Agricultural Sciences 18(1): 10-16.
- 6. **Kaakeh**, W. **2006**. Toxicity of Imidacloprid to developmental stages of *Rhynchophorus* ferrufineus (Curculionidae: Coleoptera): Laboratory and field tests. Crop Protection 25: 432-439.
- 7. **Kaakeh,** W. **2005.** Longevity, fecundity, and fertility of the red palm weevil, *Rynchophorus ferrugineus* Olivier (Coleoptera: Curculionidae) on natural and artificial diets. Emirates

- Journal of Agricultural Sciences 17(1): 23-33.
- 8. **Kaakeh**, W. **2005**. Survival and feeding responses of *Anacanthotermes ochraceus* (Hodotermitidae: Isoptera) to local and imported woods. Journal of Economic Entomology 98(4): 2137-2142.
- 9. **Kaakeh**, W. **2005**. Identification, geographical distribution, and hosts of subterranean termites in the United Arab Emirates Ecosystems. Journal of Agricultural and Marine Sciences 10: 33-39.
- 10. **Kaakeh**, W. and G. Gadelhak. **2005**. Sensory evaluation and physicochemical characteristics of *Apis mellifera* honey from Arab Gulf countries. Journal of Food and Drug Analysis 13(4): 331-337.
- 11. Ameen, A., C. Wang, W. **Kaakeh**, G. W. Bennett, J. E. King, and L. L. Karr. **2005**. Residual activity and population effects of noviflumuron SC formulation against the German cockroach (Dictyoptera: Blattidae). Journal Economic Entomol. 98(3): 899-905.
- 12. **Kaakeh**, W., M. Maraqa, M. Hassan, and A. Al-Marzouqi. **2004**. Management of Pesticides in the United Arab Emirates. Emirates J. of Agric. Sciences 16(1): 15-31.
- 13. **Kaakeh**, W. **2002**. Insecticides and fungicides and their effects. Ajman Journal of Studies and Research 1 (2): 93-128.
- 14. Ameen, A., W. **Kaakeh**, C. Wang, and G. W. Bennett. **2002**. Laboratory and field efficacy of noviflumuron formulations against the German cockroach (Dictyoptera: Blattidae). Pp. 147-153, in the Proceedings of the 4th International Conference on Urban Entomology, South Carolina, USA, Edited by S. C. Jones, J. Zhai and W. H. Robinson, Pocahants Press, Inc.
- 15. **Kaakeh**, W., M. Aboul-Anour, and A. A. Khamis. **2001**. Mass rearing of the red palm weevil, *Rhynchophorus ferrugineus* Oliv., on sugarcane and artificial diets for laboratory studies. pp. 344-357. Proceedings of the Second International Conference on Date Palm (refereed), Al-Ain, UAE.
- 16. **Kaakeh**, W., F. E-Ezaby, A. A. Khamis, and M. M. Aboul-Anour. **2001**. Management of the red palm weevil, *Rhynchophorus ferrugineus* Oliv., by a pheromone/food-based trapping system. pp. 325-343. Proceedings of the Second Inter. Conf. on Date Palm (refereed), Al-Ain, UAE.
- 17. **Kaakeh**, W., A. A. Khamis, and M. Aboul-Anour. **2001** Life parameters of the red palm weevil, *Rhynchophorus ferrugineus* Oliv., on sugarcane and artificial diet. pp. 310-324. Proceedings of the Second Inter. Conference on Date Palm (refereed), Al-Ain, UAE.
- 18. Deadman, M. L., K. M. Azam, s. A. Ravzi, and **W. Kaakeh**. **2001**. Preliminary investigation into the biological control of the red palm weevil using *Beauveria bassiana*. pp. 225-232. Proceedings of the Second International Conference on Date Palm (refereed), Al-Ain, UAE.
- 19. Ameen, A., W. **Kaakeh**, and G. W. Bennett. **2000**. Integration of chlorfenapyr into a management program for the German cockroach (Dictyoptera: Blattellidae). Journal of Agricultural and Urban Entomology (17)3: 135-142 (USA).
- 20. **Kaakeh**, W. **2000**. The use of synthetic pheromones in integrated pest management program (Review). Emirates Journal of Agricultural Sciences 12: 1-32 (UAE).
- 21. **Kaakeh**, W. and G. W. Bennett. **1999**. Developmental stage- and gender-dependent differential susceptibility of German cockroach (Dictyoptera: Blattellidae) to various commercial baits. Journal of Agricultural and Urban Entomology 16(1): 9-24 (USA).
- 22. **Kaakeh**, W. **1998**. The mating behavior of the red palm weevil (Coleoptera: Curculionidae). Emirates Journal of Agricultural Sciences 10 (1): 24-47 (UAE).
- 23. Al-Ali, F, W. **Kaakeh**, G. W. Bennett & J. L. McLaughlin. **1998**. Annonaceous acetogenins (Annonaceae) as natural pesticides: Potent toxicity against susceptible and resistant German cockroaches (Dictyoptera: Blattellidae). J. Economic Entomology 91(3): 641-649 (USA).
- 24. **Kaakeh**, W. **1997**. The response of German cockroaches to several toxic bait formulations. Emirates Journal of Agricultural Sciences 9:1-22 (UAE).

- 25. **Kaakeh**, W., B. L. Reid, N. Kaakeh & G. W. Bennett. **1997**. Rate determination, indirect toxicity, contact activity and residual persistence of lufenuron for the control of the German cockroach (Dictyoptera: Blattellidae). Journal of Economic Entomology 90: 510522 (USA).
- 26. Scharf, M., W. **Kaakeh** & G. W. Bennett. **1997**. Changes in an insecticide resistant fieldpopulation of German cockroach (Dictyoptera: Blattellidae) following exposure to an insecticide mixture. Journal of Economic Entomology 90: 38-48 (USA).
- 27. **Kaakeh**, W., B. L. Reid, T. J. Bohnert & G. W. Bennett. **1997**. Toxicity of imidacloprid in the German cockroach (Dictyoptera: Blattellidae), and the synergism between imidacloprid and *Metarhizium anisopliae* (Imperfect Fungi: Hyphomycetes). Journal of Economic Entomology 90: 473-482 (USA).
- 28. **Kaakeh**, W., M. E. Scharf & G. W. Bennett. **1997**. Efficacy of conventional insecticide and juvenoid mixtures on an insecticide resistant field-population of German cockroach (Dictyoptera: Blattellidae). Journal of Agricultural Entomology 14: 339-348 (USA).
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- 32. **Kaakeh**, W. & G. W. Bennett. **1997**. Evaluation of trapping and vacuuming compared with low-impact insecticide tactics for the control of German cockroach infestations in residences. Journal of Economic Entomology 90: 976 982 (USA).
- 33. **Kaakeh**, W., B. L. Reid & G. W. Bennett. **1996**. Horizontal transmission of the entomophagous fungus, *Metahrizium anisopliae* (Imperfect Fungi: Hyphomycetes), and hydramethylnon among German cockroaches (Dictyoptera: Blattellidae). Journal of Entomological Sciences 31: 378-390 (USA).
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- 35. **Kaakeh**, W. & J. D. Dutcher. **1994**. Probing behavior and density of *Monelliopsis pecanis*, *Monellia caryella*, and *Melanocallis caryaefoliae* (Homoptera: Aphididae) on leaves of pecan cultivars. Journal of Economic Entomology 87: 951-956 (USA).
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- 47. **Kaakeh**, W. & H. W. Hogmire. **1991**. Biology and control of green peach aphid, Myzus persicae, on peach in West Virginia, USA. Arab Journal of Plant Protection 9 (2): 124-128 (Syria).

B - Dictionaries (Peer-reviewed)

Published Dictionaries (peer-reviewed):

- 1. **Kaakeh**, W, *et al.* **2025.** Dictionary of <u>Acarology:</u> with references to important species (*English English*). Noor Publishing. 633 pp., in color).
- 2. Kaakeh, W. Dictionary of Forensic Toxicology (English Arabic; 576 p.).
- 3. **Kaakeh**, W, et al. **2022**. Dictionary of <u>Forensic Entomology</u> (English Arabic). Naif Arab University for Security Sciences. 404 pp. (in Press).
- 4. **Kaakeh**, W. **2020**. Dictionary of <u>Weeds</u> in the Arab World (English-Arabic & Arabic-English). Noor Publishing. 535 pp.
- 5. **Kaakeh**, W. **2007**. Dictionary of <u>Plant Protection</u> in the Arab World (English Arabic). Syngenta International AG., Basel, Switzerland, Printed by UAE University Printing Press, 712 pp.
- 6. **Kaakeh,** W. **2006**. Dictionary of Entomology and Integrated Pest Management (English Arabic). United Arab Emirates University Printing Press, Al-Ain, UAE. 1350 pp (2 Vols).
- 7. **Kaakeh,** W. **2004**. Dictionary of <u>Pesticide Chemistry and Toxicology</u> (English Arabic). Environmental Research and Wildlife Development Agency, Abu-Dhabi, UAE. 390 pp.
- 8. **Kaakeh,** W. **2004**. Dictionary of <u>Environment and Pollution</u> (English Arabic). Environ. Research and Wildlife Development Agency, Abu-Dhabi, UAE 510 pp.

Dictionaries in Preparation:

- 1. **Kaakeh**, W. Dictionary of Environmental Health and Food Safety (English Arabic)
- 2. **Kaakeh**, W. Dictionary of <u>Occupational Health and Safety</u> (*English Arabic*)
- 3. **Kaakeh**, W. Dictionary of <u>Waste Management</u> (Municipal, Medical, Industrial & Hazardous) (*English English*)
- 4. **Kaakeh**. W. Glossary of Plant Protection (*English English*; 760 pp.).

C-Books:

Authored Published Books (peer-reviewed):

- 1. **Kaakeh**, W. **2024**. <u>Honeybees: Their Products and Medical Benefits</u>. *First Edition* (in English), Amazon Publishing Agency (235 pp).
- 2. **Kaakeh,** W. **2021**. <u>Pest Control in Specialized Facilities</u>. Pests expected to be present, main places of infestation, tips to be followed during inspection and control operations in each facility. Noor Publishing. 117 pp.
- 3. **Kaakeh,** W. **2021**. <u>Mosquitoes and Midges</u>. Illustrated training guide on classification, general description, environment and nature, symptoms and medical importance, prevention and control. Noor Publishing. <u>110 pp</u>.
- 4. **Kaakeh,** W. **2021**. <u>Rodents</u>: Illustrated Training Guide on Species Identification, Life and Behaviour, Health & Economic Damages & Integrated Management. <u>English</u> <u>Edition</u>. Noor Publishing. <u>148 pp</u>.
- Kaakeh, W. 2021. <u>Rodents</u>: Illustrated Training Guide on Species Identification, Life and Behaviour, Health & Economic Damages & Integrated Management. <u>Arabic</u> <u>Edition</u>. Noor Publishing. 180 pp.
- 6. **Kaakeh**, W. **2020**. <u>Diseases and Pests of Date Palm</u> (In Arabic, 332 pp.). Khalifa International Award for Date Palm and Agriculture Innovation. Abu Dhabi, UAE
- 7. <u>Kaakeh, W. 2019</u>. Date Palm in the United Arab Emirates: Accomplishments from the Year of the Union 1971 to the Year of Tolerance 2019. Khalifa International Award for Date Palm and Agriculture Innovation. Abu Dhabi, UAE.
- 8. **Kaakeh,** W. *et al.* **2018.** <u>List of Agricultural Insects in United Arab Emirates</u>. Abu Dhabi Agriculture and Food Safety Authority, Abu Dhabi, UAE (In Arabic, 95 pp.).
- 9. **Kaakeh**, W. **2014**. Illustrated and Comprehensive Guide on Rodents: Taxonomy, Life Cycles, Behaviour, Control. Directorate of Health Affairs Pest Control Section. Muscat, Sultanate of Iman (In Arabic, 220 pp.).
- 10. **Kaakeh**, W. **2011.** Forensic Entomology: Detection Methods in Legal Investigations (in *Arabic*; 880 pp.; Kuwait Foundation for the Advancement of Science).
- 11. **Kaakeh**, W. **2004**. Date Palm in the United Arab Emirates: Zayed Planting Accomplishments During the Era of the Union 1971 to 2004. Second Edition (A reference book, in Arabic). The Private Department of the President of the UAE 224 p.; in color. The *first edition*, published in 2003, covered the accomplishments of the UAE governmental agencies during the era of the union from 1971 to 2001 only.
- 12. **Kaakeh**, W., A. A. Khamis, and M. Abu-Nour. **2001**. The Red Palm Weevil: The Most Dangerous Agricultural Pest. *First Edition* (in Arabic). United Arab Emirates University Printing Press. 165 p.; in color (Reference book, in Arabic).
- 13. **Kaakeh**, W. **2000** and **2009**. <u>Honeybees: Their Products and Medical Benefits</u>. *First Edition* (in Arabic), 1st Edition by The Cultural and Scientific Association, Dubai, UAE, and 2nd Edition by Dar Al Radwan, Aleppo, Syria (265 pp).

Translated Published Books (peer-reviewed):

- 1. **Kaakeh, W. 2013**. <u>Arthropod Fauna of the UAE</u> (volume 3). 820 pp. Environment Agency Abu Dhabi, UAE.
- 2. **Kaakeh, W. 2013**. Arthropod Fauna of the UAE (volume 2). 880 pp. Environment Agency Abu Dhabi, UAE.
- 3. Kaakeh, W. 2011. Arthropod Fauna of the UAE (volume 1). 813 pp. Environment

- Agency Abu Dhabi, UAE.
- 4. **Kaakeh**, W. **2008**. Manual of Field Trials in Crop Protection. Syngenta International AG., Basel, Switzerland, Printed by UAE University Printing Press (Translation from English to Arabic), 612 pp.
- 5. **Kaakeh**, W. **2001**. The Safe and Effective Use of Pesticides. First Edition, United Arab Emirates University Printing Press, 780 p.; two volumes; in color (Textbook & Reference book translated from English to Arabic).

Completed Books (to be submitted for review):

- 1. Almekhlafi, F., W. kaakeh, and R. AlAjmi. <u>Biosurgery</u>: The Use of Larvae in Chronic Wound Therapy in Humans and Animals (In Arabic; 307 pp).
- 2. Kaakeh, W. <u>Understanding Insect Structures and Functions</u>. (In *English*; 450 pp.).
- 3. **Kaakeh, W.** Encyclopedia of Pest Control: Household, Structural, Stored Products, and Public Health Pests (in *Arabic*, *1405 pp*, *3 volumes*).

Guidelines:

- 1. **Kaakeh, W. 2022.** <u>Guidelines on Inspecting Historical Buildings and Sites for Wood-Destroying Organism.</u> Department of Tourism and Culture (In English, 52 p.).
- 2. **Kaakeh, W. 2022.** <u>Guidelines on Preventive and Curative Treatment Techniques Against Wood-Destroying Organism in Historical Buildings and Sites.</u> Department of Tourism and Culture (In English, 32 p.).

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- 2. **Kaakeh**, W. Date Palm: Economic, Nutritional, and Medical Benefits (in Arabic).
- 3. **Kaakeh**, W. Understanding Integrated Pest Management (in English).
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- 6. **Kaakeh**, W. Understanding Subterranean Termites (in English).

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- 3. Palm borers and pathogenic nematodes. 2023 (In Arabic, 50 p.). Khalifa International Award for Date Palm and Agriculture Innovation.
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D - Book Chapters:

1. **Kaakeh**, W. **2023**. Artificial Intelligence in the Service of Climatic Agriculture. Page 158-175, in "Climate Change and its Impact on the Agriculture Sector" (191 p. in English) edited by Abdelouahhab Zaid and Emad Saad. First Edition. Khalifa International Award for Date

- Palm and Agricultural Innovation.
- 2. **Kaakeh**, W. **2018**. Zayed and Date Palm of UAE. Page 200-214 in Arabic, in "Zayed ... Agriculture and Date Trees", 250 p. Khalifa International Award for Date Palm and Agriculture Innovation.
- 3. **Kaakeh**, W. **2005**. The Safe Use of Pesticides, pages 175-247. In "*Integrated Pest Management* in the United Arab Emirates (Present Status and Future Outlook)". First Symposium on IPM in UAE, UAE University, 276 pages.
- 4. **Kaakeh**, W. **1999**. Human Resources. *In*: Food Security in The Arab World [prepared by several faculty members, Department of Arid Land Agriculture- Previously the Department of Plant Production; *First Edition*], UAE University Press. P. 210.
- 5. Smith, M. T & W. **Kaakeh**, **1997**. Aphid-host Plant Interactions in Pecan, pp 213-224 *In* New Development in Entomology, K. Bondari [editor], Res. Signpost, Trivandrum, India.

E- Technical Peer-Reviewed Reports (Published):

Published in Peer-Reviewed Journals:

- 1. Ameen, A., **Kaakeh**, W., and G. W. Bennett. **2002**. Efficacy of Arthitrol bait formulations and Maxforce gel bait against an insecticide-resistant strain of the German cockroach. Arthropod Management Tests 27, Report No. 11 (electronic copy) (USA).
- 2. Ameen, A., **Kaakeh**, W., P. Blything, and G. W. Bennett. **2002**. Field efficacy of victor roach magnet traps, combat bait stations, and boric acid bait stations against German cockroach populations. Arthropod Management Tests 27, Report No. 12 (electronic copy) (USA).
- 3. Ameen, A., **Kaakeh**, W. & G. W. Bennett. **2000**. Relative effectiveness of fipronil formulations on five surfaces. Arthropod Management Tests 25: 401-402 (USA).
- 4. Ameen, A., **Kaakeh**, W., P. Blything & G. W. Bennett. **2000**. Relative efficacy of chlorfenapyr formulations. Arthropod Management Tests 25: 399 (USA).
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- 7. **Kaakeh**, W., M. E. Scharf & G. W. Bennett. **1996**. Field trial of commodore and nylar. Arthropod Management Tests 21: 385 (USA).
- 8. **Kaakeh**, W. & G. W. Bennett. **1996**. Field evaluation of victor roach magnet traps. Arthropod Management Tests 21: 385-386 (USA).
- 9. **Kaakeh**, W. & G. W. Bennett. **1996**. Speed of action in siege and maxforce gel baits. Arthropod Management Tests 21: 391-392 (USA).
- 10. **Kaakeh**, W. & G. W. Bennett. **1996**. Evaluation of the victor roach magnet traps. Arthropod Management Tests 21: 392 (USA).
- 11. **Kaakeh**, W. & G. W. Bennett. **1996**. Long-term lufenuron residual study. Arthropod Management Tests 21: 392-393 (USA).
- 12. **Kaakeh**, W., M. E. Scharf, B. L Reid, G. W. Bennett, T. J. Bohnert. **1994**. Field trials of cockroach baits. Arthropod Management Tests 19: 355 (USA).
- 13. **Kaakeh**, W., B. L Reid, G. W. Bennett, T. J. Bohnert. **1994**. Residual activity of diazinon and chlorpyrifos formulations. Arthropod Management Tests 19: 359 (USA).
- 14. **Kaakeh**, W., B. L Reid, G. W. Bennett, T. J. Bohnert. **1994**. Residual activity of type II pyrethroids. Arthropod Management Tests 19: 360 (USA).
- 15. **Kaakeh**, W., B. L Reid, G. W. Bennett, T. J. Bohnert. **1994**. Residual activity of chlorpyrifos formulations. Arthropod Management Tests 19: 360-361 (USA).

16. **Kaakeh**, W., B. L. Reid & G. W. Bennett. **1994**. Speed of action in cockroach bait. Arthropod Management Tests 19: 361-362 (USA).

Submitted in Connection with Research Grants

UAE University Research Reports:

1. Pesticide Residue Problems in Vegetable Production Farms (Phase I)

- Semi-Annual progress reports were presented in Oman and the UAE. - Final report was submitted May 2006.

2. Red palm Weevil Management Project (1997-2001)

- Biannual reports were made by contribution of each research team member, based on the tasks assigned by each during the project period.
- Each research report was compiled by the Department Head and Research Coordinator.

3. Confidor Project (2002)

- Research sponsored by Bayer Corporation (Germany).
- Report presented at the 3rd Annual research Conference, UAE University (April, 2002).

4. Extension Needs for Plant Protection Workers and Supervisors - Research sponsored by UAE University.

- The report presented at the 5th Annual research Conference, UAE University (April, 2004).
- **5. Fate of Pesticide in UAE Subsurface Environment** Research sponsored by UAE University.
 - Report presented at the 3rd Annual research Conference, UAE University (April, 2002).
 - Al-Marzouqi, M. A., M. Maraqa, W. **Kaakeh**, K. Tarabily, M. Hassan, Y. Mechref. 2002. Fate of pesticides in UAE subsurface environment.

Purdue University Sponsored Research Reports (PTR):

Sixty sponsored research projects were completed at the Center for Urban and Industrial Pest Management, Purdue University, Indiana, USA. Reports were submitted, in a timely manner, to the chemical and pesticide manufacturing companies (sponsors) of research (gifts, contracts, research grants). Laboratory research projects on German and American cockroaches included: topical and dietary toxicity, flushing and knockdown effect of insecticides, repellency and attractancy bioassays, indirect or secondary toxicity, rate determination, contact activity and residual persistence of insecticides of different development, cockroach-entomolpathogenic formulations. bait evaluation and interaction, insecticide resistance mechanisms, insect growth regulators (juvenile hormone analogs and chitin synthesis inhibitors), non-chemical alternative control vacuuming, aggregation pheromones, industrial equipment for repelling cockroaches), and the discovery of natural insecticides. Field trials were conducted to determine the efficacy of residual insecticides, baits, traps, and insect growth regulators.

The effect of selected food on the efficacy of sticky traps was also determined.

- 1. **Kaakeh**, W. & G. W. Bennett. 1997. Evaluation of the Gentrol point source against the German cockroach. PTR #200.
- 2. **Kaakeh**, W. & G. W. Bennett. 1997. Evaluation of Ecologix baits for the control of German cockroach infestations in multifamily housing. PTR #199.

- 3. **Kaakeh**, W. & G. W. Bennett. 1997. Efficacy of XR-007 bait formulations for the control of German cockroaches in public housing. PTR #198.
- 4. **Kaakeh**, W. & G. W. Bennett. 1997. Efficacy of sticky traps against natural field populations of the German cockroach. PTR #197.
- 5. **Kaakeh**, W. & G. W. Bennett. 1997. Efficacy of Arthitrol baits for the control of German cockroach, *Blattella germanica* (L.), infestations in public housing. PTR #196.
- 6. **Kaakeh**, W. & G. W. Bennett. 1997. Performance of Arthitrol granular bait against the German cockroach utilizing modified manufacturing procedure, compared to other Arthitrol formulations and other commonly available baits. PTR #195.
- 7. **Kaakeh**, W. & G. W. Bennett. 1997. Contact activity and residual persistence of WP, SC, and EC formulations of AC 303,630. PTR #194.
- 8. **Kaakeh**, W. & G. W. Bennett. 1997. Contact activity and residual persistence of WG and EC formulations of fipronil (Phase III). PTR #193.
- 9. **Kaakeh**, W., P. Blything & G. W. Bennett. 1997. Efficacy of chlorfenapyr 2SC and 25WP formulations for the control of German cockroach infestations in multifamily housing. PTR #192.
- 10. **Kaakeh**, W. & G. W. Bennett. 1996. Laboratory evaluation of the flushing activity and knockdown effect of AC303,630 and Demon EC formulations for the control of the German cockroach. PTR #191.
- 11. **Kaakeh**, W., P. Blything & G. W. Bennett. 1996. Field evaluation of the Victor Roach Magnet traps, and Maxforce and Knockdown baits for the control of German cockroach population. PTR #190.
- 12. **Kaakeh**, W., P. Blything & G. W. Bennett. 1996. Field evaluation of Tempo, FCR 4545, and Suspend formulations for the control of German cockroach in residences. PTR #189.
- 13. **Kaakeh**, W. & G. W. Bennett. 1996. Toxicity of fipronil to German cockroaches 1996 Phase II. Contact activity and residual persistence of technical solutions. PTR #188.
- 14. **Kaakeh**, P. Blything & G. W. Bennett. 1996. Performance of Lo-Line cockroach traps and Raid ant baits plus for the control of German cockroach in public housing. PTR #187.
- 15. **Kaakeh**, W., P. Blything & G. W. Bennett. 1996. Toxicity of fipronil to German cockroaches Phase II (1996): Rate determination. PTR #186.
- 16. **Kaakeh**, W., P. Blything & G. W. Bennett. 1996. Comparative residual efficacy of Empire+ETOC and several competitive products against German cockroaches. PTR #185.
- 17. **Kaakeh**, W., P. Blything & G. W. Bennett. 1996. An investigation into the secondary toxicity characteristics of the Raid roach bait. PTR #184.
- 18. **Kaakeh**, W., P. Blything & G. W. Bennett. 1996. Laboratory evaluation of the Industrial Bug Banisher against German cockroaches. PTR #183.
- 19. **Kaakeh**, W. & G. W. Bennett. 1996. Effects of German cockroach infestations on range controls of automatic ovens. PTR #182.
- 20. **Kaakeh**, W. & G. W. Bennett. 1995. Contact activity and residual persistence of cyfluthrin and propoxur formulations against German cockroaches. PTR #181.
- 21. **Kaakeh**, W. & G. W. Bennett. 1995. Flushing activity and knockdown effect of microencapsulated chlorpyrifos formulations against the German cockroach. PTR #180.
- 22. **Kaakeh**, W, N. **Kaakeh** & G. W. Bennett. 1995. Effect of aging on the efficacy of Siege gel insecticide and Maxforce roach killer bait gel for German cockroach control. PTR #179.
- 23. **Kaakeh**, W. & G. W. Bennett. 1995. Synergy in bait application of chlorpyrifos (NAF110) with insect growth regulators and hydramethylnon for German cockroach control. PTR #178.
- 24. **Kaakeh**, W. & G. W. Bennett. 1995. Synergism between imidaclorprid bait and entomopathogenic fungus, *Metarhizium anisopliae*. Phase II: "Feeding of German

- cockroaches on Imidacloprid bait following topical application of spores of *M. aniso*pliae". PTR #177.
- 25. **Kaakeh**, W. & G. W. Bennett. 1995. Synergism between imidaclorprid bait and entomopathogenic fungus, *Metarhizium anisopliae*. Phase I: "Feeding of German cockroaches on Imidacloprid bait following direct contact to the fungal conidia of *M. anisopliae*". PTR #176.
- 26. **Kaakeh**, W. & G. W. Bennett. 1995. Horizontal transmission of the entomophagous fungi, *Metarhizium anisopliae*, and hydramethylnon among individuals of German cockroaches. PTR #175.
- 27. **Kaakeh**, W, N. Kaakeh & G. W. Bennett. 1995. Evaluations of chlorpyrifos baits against mixed-age groups of an insecticide-resistant strain of German cockroach. PTR #174.
- 28. **Kaakeh**, W, N. Kaakeh & G. W. Bennett. 1995. Laboratory evaluations of the flushing activity and knockdown effect of microencapsulated chlorpyrifos formulations against the German cockroach. PTR #173.
- 29. **Kaakeh**, W, N. Kaakeh & G. W. Bennett. 1995. Performance of Bitrex (Denatonium Benzoate) for controlling an insecticide-resistant strain of German cockroaches. PTR #172.
- 30. **Kaakeh**, W, N. Kaakeh & G. W. Bennett. 1995. Topical spray bioassay for evaluation of the knockdown effect of microencapsulated chlorpyrifos formulations against German cockroaches. PTR #171.
- 31. **Kaakeh**, W, N. Kaakeh & G. W. Bennett. 1995. Evaluation of the contact activity and residual persistence of cyfluthrin (Tempo)) and deltamethrin (Suspend) formulations against German cockroaches. PTR #170.
- 32. **Kaakeh**, W, N. Kaakeh & G. W. Bennett. 1995. Evaluation of the Victor Roach Magnet sticky traps for reducing German cockroach populations. PTR #169.
- 33. **Kaakeh**, W, N. Kaakeh & G. W. Bennett. 1995. Field evaluation of the Victor Roach Magnet sticky traps in a public housing for reducing German cockroach populations. PTR #168.
- 34. **Kaakeh**, W, N. Kaakeh & G. W. Bennett. 1995. Contact activity and residual persistence of FCR 4545 1SC (cyfluthrin isomer) and deltamethrin (Suspend SC) against the German cockroach. PTR #167.
- 35. **Kaakeh**, W. & G. W. Bennett. 1995. The effect of selected food on the efficacy of LoLine sticky traps for the control of German cockroach population in public housing. PTR #166.
- 36. **Kaakeh**, W, N. Kaakeh & G. W. Bennett. 1995. Rate determination, indirect toxicity, contact activity and residual persistence of the chitin synthesis inhibitor lufenuron for German cockroach control. PTR #165.
- 37. **Kaakeh**, W, N. Kaakeh & G. W. Bennett. 1995. Synergism between chlorpyrifos and the insect growth regulator fenoxycarb against the German cockroach. PTR #164.
- 38. **Kaakeh**, W., M. E. Scharf & G. W. Bennett. 1995. Field evaluation of lambdacyhalothrin and pyriproxyfen mixture for the control of German cockroach in multifamily housing. PTR #163.
- 39. **Kaakeh**, W. & G. W. Bennett. 1995. Evaluation of chlorpyrifos (NAF-110 and formulation G), maxforce gel, magnetic roach food baits against mixed-aged groups of an insecticide-resistant strain of German cockroaches. PTR #162.
- 40. **Kaakeh**, W. & G. W. Bennett. 1995. Evaluation of non-chemical and low-pesticide impact techniques for the control of German cockroach infestations in residences. PTR #161.
- 41. **Kaakeh**, W. & G. W. Bennett. 1995. Evaluation of Diacap+Torus and Empire+ Gentrol mixtures for the control of an insecticide resistant population of the German cockroach in

- multi-family housing. PTR #160.
- 42., W. & G. W. Bennett. 1995. German cockroach knockdown effect of Empire + ETOC and competitive products. PTR #159.
- 43. **Kaakeh**, W., B. L. Reid & G. W. Bennett. 1994. Efficacy of FICAM dust formulation, in combination with Agrisense GP2 attractant, against a mixed-age group of German cockroaches in large population chambers. PTR #158.
- 44. **Kaakeh**, W., B. L. Reid & G. W. Bennett. 1994. Comparison of the efficacy of Diacap vs. other micro-encapsulated formulations against German cockroaches. PTR #157.
- 45. **Kaakeh**, W., B. L. Reid & G. W. Bennett. 1994. Residual activity and persistence of fenoxycarb formulations for control of German cockroaches Part II. PTR #156.
- 46. **Kaakeh**, W., B. L. Reid & G. W. Bennett. 1994. Efficacy of chlorpyrifos and cyfluthrin formulations for the control of German cockroach infestations in public housing. PTR #155.
- 47. **Kaakeh**, W. & G. W. Bennett. 1994. Evaluations of chlorpyrifos baits (Arthitrol # 2894 & 2194) against an insecticide-resistant strain of German cockroaches, . PTR #154.
- 48. **Kaakeh**, W. & G. W. Bennett. 1994. Laboratory evaluation of boric acid against the susceptible and resistant strain of German cockroaches. PTR #153.
- 49. **Kaakeh**, W. & G. W. Bennett. 1994. Efficacy of boric acid bait for the control of German cockroach infestations in public housing. PTR #152.
- 50. **Kaakeh**, W. & G. W. Bennett. 1994. Evaluations of the flushing activity and knockdown effect of cyfluthrin and propoxure formulations against German cockroaches. PTR #151.
- 51. **Kaakeh**, W. & G. W. Bennett. 1994. The innate toxicity of Fipronil against the German and American cockroaches. PTR #150.
- 52. **Kaakeh**, W. & G. W. Bennett. 1994. Evaluation of Fipronil bait for the control of American cockroach, *Periplaneta americana* (L.), in large population chambers. PTR #149.
- 53. **Kaakeh**, W., B. L. Reid & G. W. Bennett. 1993. Evaluating three competitive chlorpyrifos baits against German cockroaches (Pt. X). PTR #148.
- 54. **Kaakeh**, W., B. L. Reid & G. W. Bennett. 1993. Efficacy of two chlorpyrifos formulations in NAF-95 baits against mixed-age groupings of German cockroaches. PTR #147.
- 55. **Kaakeh**, W., B. L. Reid & G. W. Bennett. 1993. Efficacy of Diacap 300CS for the control of German cockroach infestations in public housing. PTR #146.
- 56. **Kaakeh**, W., B. L. Reid & G. W. Bennett. 1993. Field trials of Commodore formulations (10CS & 10TB) for the control of German cockroach infestations. PTR #145.
- 57. **Kaakeh**, W., M. E. Scharf, B. L. Reid & G. W. Bennett. 1993. Efficacy of Omicron for the control of German cockroach infestations in public housing. PTR #144.
- 58. **Kaakeh**, W., M. E. Scharf, B. L. Reid & G. W. Bennett. 1993. Field trials of Siege baits for the control of German cockroach infestations in public housing. PTR #143.
- 59. **Kaakeh**, W., B. L. Reid & G. W. Bennett. 1993. Efficacy of Maxforce and Raid roach Baits against a mixed-age group of German cockroaches in large population chambers Phase I. PTR #142.
- 60. **Kaakeh**, W., B. L. Reid & G. W. Bennett. 1993. Efficacy of five chlorpyrifos bait formulations against a mixed-age group of German cockroaches, *Blattella germanica* (L.), in large population chambers Phase II. PTR #141.

A – Articles in Non Peer-Reviewed publications (Booklets, Journal, Magazines, Pamphlets, Posters Stands & Newsletters);

- 1. **Kaakeh**, W. **2019.** The Use of Aluminum Phosphide Tablets for the Control of Red Palm Weevil. The Blessed Tree Magazine 13(3): 116-121.
- 2. **Kaakeh**, W. **2014**. Illustrated and Comprehensive Guide on Rodents . Directorate of Health Affairs Pest Control Section. Muscat, Sultanate of Iman (Booklet in Arabic).
- 3. **Kaakeh**, W. **2014**. Rodents Species (Commensal and Wild). Directorate of Health Affairs Pest Control Section. Muscat, Sultanate of Iman (Stand).
- 4. **Kaakeh**, W. **2014**. Protect you Home and Farm from Rodents . Directorate of Health Affairs Pest Control Section. Muscat, Sultanate of Iman (Stand).
- 5. **Kaakeh**, W. **2014**. How Can We Get Rid of Rodents?. Directorate of Health Affairs Pest Control Section. Muscat, Sultanate of Iman (Stand).
- 6. **Kaakeh**, W., A. A. Khamis, and M. Abul-Anour. **2005**. Pesticides: Toward the Safe Use and Maintenance of the Environment (In Arabic), in Al-Morshed Extension Publication 25: 14-19. Abu-Dhabi Municipality, Abu-Dhabi Emirate, UAE.
- 7. **Kaakeh**, W., A. A. Khamis, M. Abu-Anour & M. A. Khattab. **2004**. Red Palm Weevil: Life Cycle and Damage Symptoms; Extension Publication (Poster, in Arabic), UAE University, UAE.
- 8. **Kaakeh**, W., A. A. Khamis, and M. Abul-Anour. **2003**. The Fruit Stalk Borer (in Arabic), in Al-Morshed Extension Publication 20: 42-45. Abu-Dhabi Municipality, Abu-Dhabi Emirate, UAE.
- 9. **Kaakeh**, W., A. A. Khamis, and M. Abul-Anour. **2001**. Liquid Pesticide Formulations. Al-Morshed Extension Publication 12: 30-35 (in Arabic). Abu-Dhabi Municipality, AbuDhabi Emirate, UAE.
- 10. Ameen, A., D, Brad, G. Bennett & W. **Kaakeh**. **2000**. A resistance management program for the German cockroach in a low-income housing project. Resistant Pest Management 2(1): 34-36.
- 11. **Kaakeh**, W. **2000**. Dust mites on date palm. An Extension Publication (Pamphlet, in Arabic), UAE University Printing Press, UAE University, UAE.
- 12. **Kaakeh**, W & M. A. Khattab. **1998**. Termites. Extension Publication (Pamphlet, in Arabic), UAE University Press, UAE.
- 13. Kaakeh, W. 1997. Vacuuming cockroaches. IPM Practitioner Newsletter XIX (7): 12.
- 14. **Kaakeh,** W. & G. W. Bennett. **1997**. Trap & Vac. Pest Control Technology: 8: 52, 54-56, 68 (USA, in English)
- 15. **Kaakeh**, W. & G. W. Bennett. **1997**. How do residuals measure up?. Pest Control 7: 7074 (USA, in English).
- 16. Dutcher, J. D. & W. **Kaakeh**. **1992**. Improved technique helps better monitor black pecan aphids. Pecan South 25 (4): 8-11.

B - Presentations to Conferences Published in Proceedings:

- 1. **Kaakeh**, W. **2005**. The safe use of pesticides. *In*: Proceedings of The First Symposium on Integrated Pest Management in the UAE (Present Status and Future Outlook). A symposium sponsored by the Department of Arid Land Agriculture, UAE University & the Municipalities and Agriculture Department (Al-Ain Agriculture), Al-Ain, UAE (May 2005), p. 135-202.
- 2. **Kaakeh**, W. **1999**. Date palm insects in storage. *In*: Modern Trends in Fruit Handling and Storage. Symposium sponsored by the Faculty of Agricultural Sciences, Department of

- Plant Production, UAE University, Al-Ain, UAE (December 1998), p. 57-64.
- 3. **Kaakeh,** W. **1999**. Problems associated with the handling of pesticides. *In*: Training in Agricultural Extension. Workshop sponsored by the Faculty of Agricultural Sciences, Department of Plant Production, UAE University, Al-Ain, UAE (Feb. 1999), p. 22-46.
- 4. **Kaakeh**, W. **1998**. The use of pheromones in an integrated pest management for the red date palm weevil. *In*: Date Palm Weevil. Workshop sponsored by the General Secretariat of Municipalities, Dubai, UAE (February 1998).
- 5. **Kaakeh**, W., M. E. Scharf & G. W. Bennett. **1996**. Efficacy of a lambdacyhalothrin and pyriproxyfen mixture on an insecticide resistant field-population of the German cockroach (*field trials*). Proc. National Conference on Urban Entomology (Arlington, TX, USA).
- 6. Scharf, M. E., **Kaakeh**, W. & G. W. Bennett. **1996**. Efficacy of a lambdacyhalothrin and pyriproxyfen mixture on an insecticide resistant field-population of the German cockroach (*laboratory tests*). Proc. National Conf. on Urban Entomology (Arlington, Texas, USA).
- 7. **Kaakeh**, W., B. L. Reid & G. W. Bennett. **1994**. Laboratory and field performance of insecticide formulations for German Cockroaches, *Blattella germanica* (L.), control. Proc. National Conference on Urban Entomology, pp. 109-110 (Atlanta, Georgia, USA).
- 8. Dutcher, J. D. & W. **Kaakeh**. **1992**. Control of black pecan aphids. Proc. Annual Convention of Southeastern Pecan Growers Association (Pine Mountain, Georgia, USA).
- 9. Pfeiffer, D. G. & W. **Kaakeh**. **1989**. Mating disruption of leafroller complex on apples. Proc. Annual Cumberland-Shenandoah Fruit Workers' Conf. (Harpers Ferry, West Virginia, USA).
- 10. Pfeiffer, D. G., W. **Kaakeh**, M. Lachance & J. C. Killian. **1990**. Mating disruption of leafrollers. Proc. Ann. Cumberland-Shenandoah Fruit Workers' Conf. (West Virginia).
- 11. Pfeiffer, D. G., J. C. Killian, M. Lachance & W. **Kaakeh**. **1990**. Mating disruption of codling moth. Proc. Annu. Cumber.-Shenandoah Fruit Workers'Conf. (West Virginia).
- 12. Pfeiffer, D. G., W. **Kaakeh** & J. C. Killian. **1989**. Mating disruption of codling moth on apples. Proc. Annual Cumber.-Shenandoah Fruit Workers' Conf., West Virginia).
- 13. Pfeiffer, D. G., L. F. Ponton & W. **Kaakeh**. **1989**. Savey trial in Virginia apple orchard (1988-89). Proc. Annu. Cumber.-Shenand. Fruit Workers' Conf. (West Virginia).
- 14. Pfeiffer, D. G., L. F. Ponton & W. **Kaakeh**. **1989**. Pyrethroid and predator trial in Virginia apple orchard. Proc. Annu Cumber.-Shenand. Fruit Workers' Conf. (Harpers Ferry, WV).
- 15. Pfeiffer, D. G., L. F. Ponton & W. **Kaakeh**. **1989**. Ryania trial in Virginia apple orchard (1988-89). Proc. Annu. Cumber.-Shenand. Fruit Workers' Conf. (Harpers Ferry, WV).
- 16. Pfeiffer, D. G., R. Feng, W. **Kaakeh** & R. Marini. **1989**. White apple leafhopper and apple leaf function. Proc. Annu. Cumber.-Shenand. Fruit Workers' Conf. (West Virginia).
- 17. **Kaakeh**, W. & D. G. Pfeiffer. **1986**. Effects of spirea aphid on leaf function in apple. Proc. Annual Cumberland-Shenandoah Fruit Workers' Conference (West Virginia).

C – Presentations to Conferences:

Oral Presentations:

- 1. **Kaakeh**, W. **2006**. Management of the Lesser Date Moth, *Batrachedra amydraula*, in the United Arab Emirates Date Palm Plantations. Entomological Society of America (ESA) National Meeting, Indianapolis, Indiana December 2006 (USA).
- A. **Kaakeh**, W., F. A. Talukder, J. H. Al Dahmani, M. Maraqa, M. L. Deadman, S. A. AlJabri, A. Al-Saadi, A. A. Al-Raeesi, H. Al Hasani, L. Al-Subhi, A. Boosamra. **2006**. Insecticide and Fungicide Resistances in Omani and UAE Insect-Pest and Plant Pathogens. The 7th Annual research Conference, UAE University (April, 2006).

- 2. **Kaakeh**, W. **2006**. Relative abundance and foraging intensity of subterranean termites in date palm plantations in Abu Dhabi Emirate, the UAE. The 3rd Int. Conf. on Date Palm, Abu Dhabi, UAE (February 2006).
- 3. **Kaakeh**, W., F. A. Talukder, J. H. Al Dahmani, M. Maraqa, M. L. Deadman, S. A.AlJabri, A. Al-Saadi, A. A. Al-Raeesi, H. Al Hasani, L. Al-Subhi, A. Boosamra. **2005**. Assessment of pesticide use on vegetable farms in the United Arab Emirates and Sultanate of Oman. The 6th Annual research Conference, UAE University (April, 2005).
- 4. **Kaakeh**, W. **2005**. Relative abundance and foraging behavior of subterranean termites in date palm plantations in the United Arab Emirates. The 6th Annual research Conference, UAE University (April, 2005).
- 5. Al-Muhairi, T. & W. **Kaakeh**. **2004**. Extension needs for plant protection workers and supervisors. The 5th Annual Research Conference, UAE University (April, 2004).
- 6. **Kaakeh**, W. **2004**. Relative abundance and foraging behavior of subterranean termites in date palm plantations in the United Arab Emirates. NCB of the Entomological Society of America. Kansas City, MO (March 2004).
- 7. **Kaakeh**, W. **2003**. Insects and other foreign materials in our food: The defect action levels and the issue of food safety. The first International Conference on Food Systems, AlAin, UAE (April, 2002).
- 8. **Kaakeh**, W. **2002**. Response of subterranean termites to baiting with diflubenzuron using Labyrinth Termite Baiting System in the United Arab Emirates. Entomological Society of America (ESA) National Meeting, Fort Lauderdale, Florida November 2002 (USA).
- 9. **Kaakeh**, W., A. A. Khamis, and M. Aboul-Anour. **2002**. Evaluation of the systemic insecticide Confidor for the control of the red palm weevil in United Arab Emirates. The 3rd Annual research Conference, UAE University (April, 2002).
- 10. Al-Marzouqi, M. A., M. Maraqa, W. **Kaakeh**, K. Tarabily, M. Hassan, Y. Mechref. **2002**. Fate of pesticides in UAE subsurface environment. The 3rd Annual research Conference, UAE University (April, 2002).
- 11. **Kaakeh**, W. **2001**. Development of an integrated management program for the red palm weevil in the Arab gulf region. Entomological Society of America (ESA) National Meeting, San Diego, California December 2001 (USA).
- 12. **Kaakeh**, W., M. Aboul-Anour, and A. A. Khamis. **2001**. Mass rearing of the red palm weevil, *Rhynchophorus ferrugineus* Oliv., on sugarcane and artificial diets for laboratory studies. The 2nd Int. Conf. on Date Palm, Al-Ain, UAE (March 2002).
- 13. **Kaakeh**, W., F. E-Ezaby, A. A. Khamis, and M. M. Aboul-Anour. **2001**. Management of the red palm weevil, *Rhynchophorus ferrugineus* Oliv., by a pheromone/food-based trapping system. The 2nd Int. Conf. on Date Palm, Al-Ain, UAE (March 2002).
- 14. **Kaakeh**, W., A. A. Khamis, and M. Aboul-Anour. **2001** Life cycle of the red palm weevil, *Rhynchophorus ferrugineus* Oliv., on sugarcane and artificial diet. The 2nd Int. Conf. on Date Palm, Al-Ain, UAE (March 2002).
- 15. Deadman, M. L., K. M. Azam, s. A. Ravzi, and **W. Kaakeh**. **2001**. Preliminary investigation into the biological control of the red palm weevil using *Beauveria bassiana*. The 2nd Int. Conf. on Date Palm, Al-Ain, UAE (March 2002).
- 16. **Kaakeh**, W. **2001**. Survey, distribution of foraging populations in urban settings, and response of subterranean termites in treated woods and baits. The 2nd Annual Research Conference at UAE University (April 2001).
- 17. **Kaakeh**, W. **2000**. Species identification and foraging activity of subterranean termites in the United Arab Emirates. Entomological Society of America (ESA) National Meeting, Montreal December 2000 (Canada).
- 18. Kaakeh, W. 1999. Introduction to Pesticides. Symposium on the Safe and Effective Use of

- Pesticides. Sponsored by the Faculty of Agricultural Sciences, Department of Plant Production, UAE University (November 1999).
- 19. **Kaakeh**, W. **1999**. Pesticides Emergency. Symposium on the Safe and Effective Use of Pesticides. Sponsored by the Faculty of Agricultural Sciences, Department of Plant Production, UAE University (November 1999).
- 20. **Kaakeh**, W., F. Q. Alali, G. W. Bennett & J. L. McLaughlin. **1997**. Annonaceous acetrogenins as natural pesticides for the German cockroach. ESA National Meeting, Nashville, Tennessee December 1997 (USA).
- 21. **Kaakeh**, W. & G. W. Bennett. **1996**. Trapping and vacuuming techniques for the control of the German cockroach. ESA National Meeting, Louisville, Kentucky Dec. 1996 (USA).
- 22. **Kaakeh**, W., B. L. Reid & G. W. Bennett. **1995**. Contact activity and residual persistence of the chitin synthesis inhibitor lufenuron on the German cockroach. ESA National Meeting, Las Vegas, Nevada December 1995 (USA).
- 23. **Kaakeh**, W., B. L. Reid & G. W. Bennett. **1994**. Transmission of the entomophagous fungi, *Metahrizium anisopliae*, among individuals of German cockroaches. ESA National Meeting, Dallas, Texas December 1994 (USA).
- 24. Kells, S., W. **Kaakeh**, B. Reid & G. W. Bennett. **1994**. Effect of an alternative food source on the efficacy of baits against German cockroach. ESA National Meeting, Dallas, Texas December 1994 (USA).
- 25. **Kaakeh**, W. **1993**. Pecan Research Pecan aphids and associated insects. Coastal Plain Exp. Station, University of Georgia, Tifton, Georgia (USA).
- 26. **Kaakeh**, W., B. L. Reid, G. W. Bennett & T. J. Bohnert. **1993**. Toxicity of imidacloprid to German cockroaches, *Blattella germanica* (L.). ESA Nat. Meet., Indianapolis, Indiana December 1993 (USA).
- 27. **Kaakeh**, W. & J. D. Dutcher. **1993**. The effect of temperature on survival of yellow and black pecan aphids. Georgia Entomol. Soc. Annual Meeting, Athens, Georgia (USA).
- 28. **Kaakeh**, W. & J. D. Dutcher. **1993**. Comparisons of probing behavior and density of pecan aphids on ten pecan cultivars. Georgia Entomol. Soc. Annual Meeting, Athens, Georgia (USA).
- 29. **Kaakeh**, W. & J. D. Dutcher. **1992**. Tolerance of yellow pecan aphid and black pecan aphid to different temperature regimes. ESA National Meeting, Baltimore, Maryland December 1992 (USA).
- 30. Dutcher, J. D. & W. **Kaakeh**. **1992**. A prediction model for pecan aphid outbreak. Georgia Entomol. Soc. Annual Meeting, Jekyll Island, Georgia (USA).
- 31. **Kaakeh**, W. & J. D. Dutcher. **1991**. Reproductive rates of pecan aphids on pecan, and cowpea and pea aphids on six cover crops. ESA National Meeting, Reno, Nevada December 1991 (USA).
- 32. Dutcher, J. & W. Kaakeh. 1991. Retaining beneficial insects in the pecan orchard. Georgia Entomol. Soc. Annu. Meeting, Pine Mountain, Georgia (USA).
- 33. **Kaakeh**, W. & J. Dutcher. **1991**. Foraging preference of red imported fire ants, *Solenopsis invicta* Buren, to summer cover crops and their extracts. ESA Southeastern Branch Annual Meeting, Orange Beach, Alabama (USA).
- 34. **Kaakeh**, W. & D. G. Pfeiffer. **1990**. Trap capture reductions in small plots and reduced rates for dispensers containing two leafroller pheromone blends. ESA National Meeting, New Orleans, Louisiana December 1990 (USA).
- 35. Pfeiffer, D. G., J. C. Killian, W. **Kaakeh** & M. W. Lachance. **1990**. Mating disruption to control codling moth in Virginia apple orchard. ESA Meeting, New Orleans, Louisiana December 1990 (USA).
- 36. Pfeiffer, D. G., W. **Kaakeh**, J. C. Killian, M. W. Lachance & L. F. Ponton. **1990**. Use of two pheromone blends in mating disruption for the leafroller complex in Virginia apple

- orchards. ESA Eastern Branch Annual Meeting, Baltimore, Maryland (USA).
- 37. **Kaakeh**, W. **1990**. Mating disruption of leafrollers in Virginia apple orchards. Annual Leafroller Worker's Conference, Geneva, New York (USA).
- 38. **Kaakeh**, W. & D. G. Pfeiffer. **1989**. The effect of spirea aphid and nitrogen fertilization on the growth, dry matter accumulation, and carbohydrate concentration in young apple trees. ESA National Meeting, San Antonio, Texas December 1989 (USA).
- 39. **Kaakeh**, W. **1989**. The effect of spirea aphid and apple aphid on the growth of young apple trees. Annual Leafroller Worker's Conference, Kearneysville, West Virginia (USA).
- 40. **Kaakeh**, W., D. G. Pfeiffer, and R. P. Marini. **1987**. The effect of spirea aphid, *Aphis spiraecola* Patch (Homoptera: Aphididae), on net photosynthesis and leaf chlorophyll content of nonbearing apple trees. ESA National Meeting, Boston, Massachusetts December 1987 (USA).
- 41. **Kaakeh**, W., D. G. Pfeiffer & R. P. Marini. **1987**. Effect of spirea aphid on dry matter accumulation and carbohydrate concentration of young apple trees. Annual Graduate Research Symposium of Virginia Tech, Blacksburg, Virginia (USA).
- 42. **Kaakeh**, W. **1986**. Influence of spirea aphid and sooty mold on net photosynthesis and chlorophyll content of apple leaves. Annual Graduate Research Symposium of Virginia Tech, Blacksburg, Virginia (USA).

Invited Presentations:

- 1. **Date Palm Pest Management** during the workshop entitles "Oases without Pests" Nov. 2011. Sponsored by Garden Sector of Al-Ain Municipality.
- 2. Current Knowledge and Future Research Needs for the Management of the Red Palm Weevil, *Rhynchophorus ferrugineus* Olivier, on Date Palm. Sponsored by King Faisal University, Saudi Arabia, and presented at the 4Th Symposium on date Palm in Al Hassa, Saudi Arabia, 5-8 may, 2007.
- 3. **Selecting the Safest Pesticides to the Environment** Department of Municipality and Agriculture Agriculture Section, Al-Ain. Sponsored by the Environment Agency of Abu Dhabi, UAE March 6th (Al-Ain) & March 22nd (Abu Dhabi), **2007.**
- 4. **Pesticide Formulations and Spray Procedures** Department of Municipality and Agriculture Agriculture Section, Al-Ain. Sponsored by the Environment Agency of Abu Dhabi, UAE March 6th (Al-Ain) & March 22nd (Abu Dhabi), **2007.**
- 5. **Recent Termite Research Studies in the United Arab Emirates** Royal Court Affairs & Sultan Qaboos University (Oman) September **2005**.
- 6. **The Current Status and Future of Pest Control in the UAE** Ministry of Agriculture and Fisheries (UAE) March **2003**.
- 7. The Use of Dangerous Materials and Method of Storage Abu-Dhabi Municipality (UAE) April 2001.
- 8. The Use of Baiting Systems in Monitoring and Controlling Termites in Historical Buildings Dubai Municipality, Historical Building Section, presented a lecture at a symposium on "Termites and Their Effects on Historical Buildings September 1999.
- 9. **The Use of Sex Pheromones in Agriculture and Storage** Invited as an interpreter for a lecture given by Mr. Bill Lingren, President of Trece Company (USA), and sponsored by Trece Company with the cooperation with Agricultural Materials Company and the Department of Agriculture in Al-Ain, UAE March **1998**.
- 10. The Use of Pheromones in an Integrated Pest Management for the Red Date Palm Weevil Presented at the "Date Palm Weevil" workshop sponsored by the General Secretariat of Municipalities, Dubai, UAE February 1998.

- 11. **German Cockroach Control: Monitoring, Baiting, and Alternative Control Methods** Presented at the 61st Annual Purdue Pest Control Conference, West Lafayette, Indiana, USA January **1997**.
- 12. Cockroach Biology & Management Invited by Indiana Vector Control Association (Fort Wayne, IN) March 1994.
- 13. **Cockroach Control** Invited by Indiana Pest Control Association (Nashville, TN October **1994**.
- 14. **Pecan Insecticides: Doing the Best with the Remaining Registered Materials** Presented at the Pecan Pest Management Scout School, Tifton, Georgia, USA Oct. **1992**.
- 15. **Cover Crops for Pecan Orchards** Presented to members of the Georgia Pecan Growers Association at their Training Summer Tour and Field Day, Tifton, Georgia Nov. **1992**.
- 16. Warm and Cool Season Cover Crops Help Control Pecan Aphids Invited by the Alabama Pecan Grower Association during their Training Summer Tour and Field Day, Tifton, GA, USA November 1992.

D - Research Patent:

- 1. Purdue Ref. No.: P-97059.00 US, U.S. Serial No.: 09/213,164 One research article, from the content of this Patent, was published:
- 2. U.S. Patent in the U.S. Patent and Trademark Office. Purdue University (Indiana, USA) Al-Ali, F, W. **Kaakeh**, G. W. Bennett & J. L. McLaughlin. 1998. Annonaceous acetogenins (Annonaceae) as natural pesticides: Potent toxicity against susceptible and resistant German cockroaches (Dictyoptera: Blattellidae). J. Economic Entomology 91(3): 641-649 (USA).
- 3. The technology referenced in this patent has been licensed to Nature's Sunshine Products, USA.

E - University Services:

Participation in Committees:

UAE

- 1. **Department Promotion Committee** Chair (2006-2007).
- 2. University Academic Assessment & Program Review Committee (nominated) Member (2005-present)
- 3. Scientific Committee for the Third International Conference on Data Palm Member (2005-2006).
- 4. Class Schedule and Academic Affairs Committee Coordinator at the Department level (2005-2006).
- 5. Integrate Pest Management in the UAE Symposium Organizing Committee Coordinator and Member (2005-2006).
- 6. University and Community Services Committee Member (2004-2005).
- 7. College Internship and Integrated Learning Committee Member (2003-2004).
- 8. University and Community Services Committee Member (2001-present).
- 9. Exams Committee Member at the Department level (2003-2004).
- 10. **Supervision and Proctoring of Final Exams of the General Education Courses** Member at the University level (1997-present).
- 11. Editorial Board of the Emirates Journal of Agricultural Sciences Member (2002present).
- 12. **Media and Community Services Committee** Member (2002-2003).
- 13. Scientific Committee for Plant Protection at the Agricultural Universities of the

- **Arab Gulf countries** Member (2002).
- 14. **Outcome Assessment Committee** Head at the Department level (2001-present) and Member at the College level (2001-2002).
- 15. **Teaching Innovation Committee** Member (2001-2002).
- 16. Organizing Committee for the Symposium on The Safe and Effective Use of Pesticides Coordinator and member (November 1999).
- 17. Scientific Committee for the First International Conference on Data Palm Member (1997-2000).
- 18. **Faculty Farm Committee** Member (1997-present). Members give recommendation on all aspects of research projects, organization, and all matters related to the Farm at the UAE University.
- 19. **Evaluation of Research Projects Committee** Member (1997-1998). Members give recommendation on research projects submitted to the Council for Sci. Research.
- 20. Faculty/Lecturer Position Selection Committee Member (1997-1999, 2003-2005). Members select a qualified candidate for the faculty and non-faculty teaching position at the Department level.
- 21. **Graduate Booklet Committee** Member (1998-99). Participated in collecting information on all graduates from the Faculty of Agricultural Sciences since its establishment in 1981.
- 22. Committee for Self-Evaluation of the Plant Production Dept. Member (19992001).

Purdue University:

- Participated in the "Purdue Pest Control Conference Planning Committee" meetings (1993 to 1996).

Presentations of Lectures in Seminars, Workshops or Symposiums

- 1. Pesticide Application in Vegetable Production and Subsequent Pesticide Resistance and Residue Problems in Oman and UAE. Lecture presented at the Annual College Seminar (October 2006).
- 2. **The safe Use of Pesticides.** Lecture presented at the IPM in the UAE Symposium. Organized by the Department of Arid Land Agriculture (May 2005).
- 3. **Survey of Insects in UAE** Annual College Seminar. College of Food Systems seminar, 2nd semester (2001-2002).
- 4. **Implement Instructional Delivery on the Internet Using Video-to-VCCA Conversion** Sponsored by the Information Technology Center (Nov. 1999).
- 5. **Current Strategies for the Control of Red Palm Weevil** Annual Faculty of Agricultural Sciences Seminar (1st semester, 1999-2000).
- 6. **The Use of Pheromone in Insect Pest Management Program** Annual Faculty of Agricultural Sciences Seminar (2nd semester, 1998-99).
- 7. **Development of an Integrated Pest Management Program** Annual Faculty of Agricultural Sciences Seminar (2nd semester, 1997-98).

Attendance of Seminars, Workshops, and Symposiums:

Research and Extension Related

1. The 2nd Tissue Culture Workshop and its Prospects in Agricultural Investment in the Arab Countries. Workshop organized by the Arab Authority for Agricultural Investment and Development, FAO, Islamic Development Bank, Ministry of Agr. and

- Fisheries, and UAE University. Al-Ain, UAE (June 2005).
- 2. **The Design and Implementation of Food-Safety Programs in the UAE.** Workshop sponsored by the Department of Agribusiness and Consumer Science (CFS), and Municipalities and Agr. Department (al-Ain Agriculture) (May 2005).
- 3. **Food Products Developments in the UAE and Beyond**. Symposium organized by the College of Food Systems, Al-Ain (May 2004).
- 4. **Procedures of Internally Funded Research Projects** Workshop sponsored by Research Affair Council (February 2004).
- 5. **Food Contaminants and Regulations.** Regional workshop organized by Abu-Dhabi Municipality) (October 2002).
- 6. **Funded Research Projects** Workshop sponsored by Research Affair Council (September 2002).
- 7. **Modern Trends in Picking, Packing, Storage of Date Palm and Tissue Culture** Symposium sponsored by the College of Food Systems (April 2002).
- 8. First and Third Scientific Workshops on Ornamental Horticulture in the Arab Gulf Region Organized by Al-Ain Municipality and UAE University (April 2001 and March 2003).
- 9. Food Quality Control: Its Effect in Securing Proper Nutrition in Gulf Region Symposium organized by the Faculty of Agricultural Sciences, Food Sciences and Nutrition Department (CFS) (April 1999).
- 10. **Efficacy of SoilRich Applications to Different Crops** Symposium organized by the Faculty of Agricultural Sciences, Plant Production Department, in cooperation with Gulf Commercial-US AmeriGro (April 1999).
- 11. Animal Production Information Network (API Net), Development of Courses in the Internet Workshop organized by the Faculty of Agricultural Sciences, Animal Production Department (November 1998).
- 12. **Preparing and Submitting Research Proposals** Workshop sponsored by the Council for Academic Affairs (October 1998).

Teaching Related Activities

- 1. **The Effective Use of Laptop in Active Learning.** Workshop organized by the Laptop Committee of the College of Food Systems, UAE University. Al-Ain, UAE (April 2005).
- 2. **IWil on-Line System** Workshop sponsored by Internship and Integrated Learning Center (February 2004).
- 3. **WACE Learning System: Interactive Learning workshop** Workshop sponsored by UAE University (December 2003).
- 4. **Program Assessment and Development Committee** College representative to attend a workshop on date entry and outcome analysis (May 2004).
- 5. Best Practices for Internship Programs at an International Level and WACE Learning System Making Internship Programs More Effective Workshop Workshop sponsored by Internship and Integrated Learning Center (Nov. 2003).
- 6. **ERMSS** Workshop sponsored by UAE University (September 2002).
- 7. **Development of Courses in the Internet** Workshop sponsored by UAE University (May 1999).

- 1. Writing extension articles in Al-Morshed magazine, published by Abu-Dhabi Municipality (2000-present).
- 2. Planning of a training workshop in "Pest Control and Safe Use of Pesticides" for field supervisors of Al-Ain Municipality (November 2004).
- 3. **Preparing the Department of Aid land Agriculture brochure -** College of Food Systems, 2nd semester (2001-2002).
- 4. Attended a training course on "Healthy Nutrition and Food Safety", organized by the Dept. of Nutrition and Food Sci., Faculty of Agric. Sciences (Dec. 1999).
- 5. **Pecan aphid biology and management** Department of Entomology Seminar, Purdue University (1993).

Community Services:

A - Participation in Committees:

UAE:

- 1. **Pesticides and Water Awareness Programs Committee** Member (Jan. 2006present). Joint extension work team between Environment Agency Abu Dhabi, UAE University, Ministry of Environment and Water, and Al-Ain Department of Agriculture.
- 2. **Date Palm Pests Control Research Team** Member (July 2005-present). Joint work team between the UAE University, Al-Ain Municipality, and Al-Ain Agriculture.
- 3. Committee for Reviewing of EIA Studies Application filled for participation, requested by the Environmental Research and Wildlife Development Agency, AbuDhabi (December 2002).
- 4. **Joint Research Team** Member (2002). Joint research team between the Private Dept. of H. H. The President of the UAE, Abu-Dhabi Municipality, and UAEU.
- 5. **Joint Cooperation Committee** Joint research cooperation between the Environmental Research and Wildlife Development Agency and the UAE University (May 2003).
- 6. **Survey of Pests in UAE Committee** Member (2001-2002). Supported by the Ministry of Agriculture and Fisheries, UAE.
- 7. **Technical Committee for Studying Pesticide Residues in Food Products** Member (2001-2002). Supported by the Ministry of Finance and Industry, UAE.
- 8. Study the Fate of Insecticides in Vegetable Crops in the UAE Member (20002001). Supported by the Federal Environmental Agency of the UAE.
- 9. Liaison Committee with the Environmental Health Program of the World Health Organization Member (1997-98). Supported by the Ministry of Health, UAE.
- 10. Committee for Study of Agrichemicals and Agricultural Products Member (1998-1999). Supported by the Ministry of Agriculture and Fisheries, UAE.

Other Arab Countries

- 1. **Pesticides Committee** Coordinator & Reporter (2013-2015) Supported by the Arab Organization for Plant Protection, to review and add terms used in pesticides.
- 2. **Insects and Acari Committee** Member (2002-2003) Supported by the Arab Organization for Plant Protection, to review and add terms used in plant protection sciences.

B - Presentations of Lectures in Workshops or Symposiums

- Recent Termite Research Studies in the United Arab Emirates Workshop organized by the Royal Court Affairs & Sultan Qaboos University (Oman) (September 2005).
- **Integrated Pest Management** Workshop organized by the International Center for Agricultural Research in the Dry Areas (ICARDA) in collaboration with the Ministry of Agriculture and Fisheries (August 2003).
- Current and Future Status of Pest Control in the UAE Workshop, on the control of red palm weevil, organized by the Ministry of Agriculture and Fisheries (March 2003).
- The Use of Dangerous Materials and Methods of Storage Workshop organized by Food and Environmental Control Center, Abu-Dhabi Municipality (April 2001).
- **Introduction to Pesticides** Symposium, on the Safe and Effective Use of Pesticides, sponsored by the Faculty of Agricultural Sciences, Department of Plant Production, UAE University (November 1999).
- **Pesticides Emergency** Symposium, on the Safe and Effective Use of Pesticides, sponsored by the Faculty of Agricultural Sciences, Department of Plant Production, UAE University (November 1999).
- The Use of Baiting Systems in Monitoring and Controlling Termites in Historical Buildings Symposium sponsored by Dubai Municipality, Historical Building Section (September 1999). Date palm insects in storage Symposium on Modern Trends in Fruit Handling and Storage, which was sponsored by the Department of Plant Production, UAE University (December 1998).
- **Problems Associated with the Handling of Pesticides** Symposium entitled "Training Workshop in Agricultural Extension", which was sponsored by the Department of Plant Production, UAE University (February 1999).
- The Use of Pheromones in an Integrated Pest Management for the Red Palm Weevil the "Date Palm Weevil" workshop sponsored by the General Secretariat of Municipalities, Dubai, UAE (February. 1998).

C - Attendance of Seminars, Workshops, and Symposiums:

- **Proclaim: a New Pesticide in the UAE.** Seminar organized by the Agricultural Materials Co., Al-Ain, UAE (September 2005).
- The Use of Viruses in Managing Insect: Red Palm weevil (Study Case). Seminar organized by the Ministry of Agriculture and Fisheries (March 2005).
- **Integrated Use of Pesticides (Calypso, Envidor, Flint).** Seminar organized by Bayer CropScience, Al-Ain, UAE (February 2005).
- Total Quality & Its Role in Developing Individuals and Corporation Performance
 Seminar organized, in Al-Ain, by Abu-Dhabi Chamber of Commerce and Industry (June 2004).
- **New Pest Control Methods with Fiendly Pesticides** Workshop organized by Al-Mubarak Agricultural Chemicals Co. and Dow AgroSciences, Dubai (October 2003).
- **Environmental Protection: Responsibilities and Priorities** Seminar and Exhibition organized by Abu-Dhabi Chamber of Commerce and Industry (December 2002).
- **Food Contaminants and Regulations** Regional workshop sponsored by AbuDubai Municipality and Town Planning (October 2002).
- **Animal Production Under Arid Conditions** The 5th Annual Conference (May 2000) and the 6th Annual Conference (April 2001).
- The Use of Integrated Pest Management for Preventing Environmental Pollution Symposium sponsored by the Minis. of Agric.& Fisheries (May 1999).

- Control of Termites Using Backtop Microcapsule Insecticide Workshop organized by the Agricultural Materials Co. (January 2004).
- **The Use of Information Technology in teaching and Learning** Organized by the College of Education (November 1999).
- **Salt Tolerant Plants** Organized by Biosaline Agriculture Center Dubai (October 1999).

D - Training, Diagnosis, and Consultations

- **Siji Date Farm.** Providing professional diagnosis of date palm pests in Siji date farm in Fujairah Emirate (May 2005).
- **Biological Control and Organic Agriculture -** Providing professional opinion on a study on "Environmental Maintenance and Biological Diversity" prepared by the
- "National Company on Biological Agriculture" to the office of H.H. The President of the UAE (June 2004).
 - Cooperative Gulf Council Award for the Best Environmental Work selected as a Judge from the UAE to review research projects submitted to Arab Gulf Council (November 2002).
- Herbal Treatment of the "Neem Guard" Botanical Insecticide for the Control of the Red Palm weevil Providing professional opinion on this product received from Shalimar International L.L.C. (April 2004).
- **Introducing the College of Food Systems** Visiting High School student in AlFujayra Emirates to provide information on the College (April 2003).
- **Biological Control of Agricultural Pests** Providing professional opinion to the Office of the President of the UAE (June 2002).
- **Date Mites -** Providing professional opinion to the Office of the President of the UAE (June 2001).
- Forest Tree Samples Diagnosis of plant samples of forest trees received from Twaisa Forest (December 2001).
- Controlling termite infestations in several UAE University buildings Organized a plan of control (October and November 2001).
- **Development of al-Sammaliah Island** Proposed research projects for developing the Island (November 2001).
- Consultation and writing report on analysis of soil and plant samples to several agencies in the country.
- **Training of Agricultural High School students** Training laboratory sessions in our Plant Protection Laboratory (1997-98).
- Examination of Several Compost Plant Samples for the Presence of Insects and Diseases. Samples received from Al-Ain Compost Plant of Al-Ain Municipality, Emirates of Abu-Dhabi.
- -Serving as a Judge for research papers on "The Use of Chemicals in Agriculture" submitted by UAE University students for Sheik Mohamed bin Khaled Al-Nahayan Award. The award was sponsored by Sheik Mohamed bin Khaled Educational and Religion Center (December 1998).
- Preparing a color poster on red palm weevil life cycle and damage, as well as an extension publication on termites for the Agrofish exhibition (October 1998).
- Visiting historical buildings in Dubai City to assess the level of termite infestations in historical buildings. Suggestions and comments to solve the problem were given to authority. Detailed research proposal on termites was submitted to Dubai Municipality for their consideration and funding (1998-1999).

- **Diagnosis of Symptoms of Mangrove** trees received from the Committee of the Emirates Heritage Club, a part of the Commission of Environmental Researches of Al-Shammaliah Island (second semester 1997-98).
- -Selecting the Right Pheromone for the Control of Major Agricultural Pests Consultation was given to the Department of Parks and Agriculture, Dubai Municipality (April 2001).

USA:

- Served as a Judge for Poster sessions in the 2002 Entomological Society of America National Meeting, Fort Lauderdale, Florida (November 2002).
- Frequent Consultation to Local Pest Control Operators from the State of Indiana. Acted as a President of the Arab Community of Greater Lafayette, Indiana (1994-1997). Arrangements for meeting facilities and selecting guest speakers for the monthly meetings were made.
- **Invited to speak to second graders** from Cumberland Elementary School in West Lafayette, Indiana, on "**the World of Insects and Exotic Cockroaches**" (September 1996).
- **Beetle Mythology of Ancient Egypt** 1996 Bug Bowl presentations to the general public (over 5,000 attendees) (April 1996).
- Served as a Judge for the 1993 Southwest Georgia Regional Science Fair, Tifton High School, Tifton, Georgia (December 1993).

Other Scientific Activities:

A – Advisory Boards / Council / Group:

- 1 Member of the Emirates Forensic International Scientific Council (2017 Present) Assisted in scientific consultation and recommendation related to the Emirates Forensic 2017 Conference and other educational and scientific activities.
- 2 Vice Chairman of the Arab Scientific Group in Forensic Entomology (2018 Present) Arab Society for Forensic Sciences and Forensic Medicine. Naif Arab University for Security Sciences.
- **3- Member of the Environmental Health and Safety Advisory Board.** Abu Dhabi University, Abu Dhabi, UAE (2018-Present).

B - Editorial Activities:

Member of the Editorial Board of:

- 1- Canadian Journal of Pesticides and Pest Management (2018-present)
- 2- E- Cornicon Forensic Sciences (2014-present)
- **3- E-Cornicon C Agriculture** (2014-present)
- **4- World Journal of Agricultural Sciences** (2006-present)
- 5- Emirates Journal of Agricultural Sciences (EJAS) (2002-2007).
- Co-Editor of the Proceedings of the First International Conference on Date Palm (1998-2000). UAE University Printing Press, UAE University, Al-Ain, UAE.
- Editor of the Proceedings of the First Symposium on Integrated Pest Management in the UAE (2005). UAE University Printing Press, UAE University, Al-Ain, UAE.
- Editor of the Journal of Food, Agriculture, and Environment (JFAE) (2006-2010) (Invited; contract signed).

C – Reviewing Activities:

Reviewer of research manuscripts submitted to eight refereed journals:

- (1) Journal of Economic Entomology (USA) (2)
- Environmental Entomology (USA)
- (3) Journal of Entomological Science (USA)
- (4) Entomologia experimentalis et applicata (Netherlands)
- (5) Journal of Agricultural Entomology (USA)
- (6) Journal of Agricultural and Urban Entomology (USA).
- (7) Journal of Agricultural and Marine Sciences (Oman)
- (8) Emirates Journal of Agricultural Sciences (UAE)
- (9) Journal of Zhejiang University-Science (China)

E - Membership in Professional Societies:

- 1) Entomological Society of America.
- 2) Arab Society for Plant Protection.
- 3) Arab Society for Forensic Sciences and Forensic Medicine.

F - Professional Research Interactions / Team Work Projects:

Extensive experience in working with people from different ethnic background

- Close cooperation with Al-Ain Municipality, Department of Agriculture (Al-Ain), Ministry of Environment & Water. Research project dealing with the control of date palm pests.
- 2) Cooperating with a research team from Sultan Qaboos University in a multidisciplinary research projects. Phase (I) A Pesticide Application in Vegetable Production and Subsequent Pesticide Resistance and Residue Problems in Oman and UAE, and Phase (II) Pesticide Resistance and Residue Problems in Omani and UAE Vegetable Production: Solution Through Rapid and Molecular Detection Techniques and Farmers Awareness.
- 3) Cooperation with the Ministry of Environment & Water on a research project entitled "A Pesticide Application in Vegetable Production and Subsequent Pesticide Resistance and Residue Problems in Oman and UAE" Phase I & II.
- 4) Worked closely, on a project dealing with the fate of pesticides in UAE subsurface environment, with several members of the College of Engineering, College of Sciences, and the College of Medicine at UAE University.
- 5) Worked closely, on several projects dealing with the integrated management program for the red palm weevil and the fate of pesticides in the subsurface environment, with several faculties of the Department of Arid Land Agriculture at the United Arab Emirates University. The projects were joint projects with the Faculty of Agriculture at Sultan Qaboos University, the Ministry of Agriculture in Sultanate of Oman, and researchers from the Department of Agriculture in Al-Ain (UAE).
- 6) At Purdue University, I worked closely with Dr. Nawal Kaakeh (a visiting Professor and Head of the Department of Plant Protection from Aleppo University, Syria) during her sabbatical leave in 1995. The cooperative work resulted in publishing two papers in refereed journals and submitting 12 technical reports to sponsors of contract research.

- 7) Acted as a liaison between the Center for Urban and Industrial Pest Management at Purdue University and other Universities and took a leadership role in planning and implementation of several research projects with other researchers.
- 8) Provided an extensive range of support to the graduate students at the Center for Urban and Industrial Pest Management (Purdue University) to assist them in their research activities, including maintenance of cockroach colonies, securing field research sites, sharing ideas and technical knowledge, and reviewing manuscripts.
- 9) Supervised a technical staff member and provided her with research advice on how to maintain cockroach rearing facilities.
- 10) Hired, trained, and supervised 6-8 student workers per year, at Purdue University, during the summer (full-time) and academic year (part-time) to conduct laboratory tests and field trials in public housing complexes.

G - Certificates of Professional Development and Training Programs:

- 1) "WACE Learning System: Interactive Learning" workshop UAE University (2003).
- 2) "Blackboard Training" Workshop UAE University (2002).
- 3) "Development of Courses in the Internet" Workshop UAE University (1999).
- 4) "Analytical Techniques in Marines Science" Training Program a seven-day training program sponsored by the Faculty of Science at UAE University (Al-Ain, UAE) with the cooperation with the Environmental Research and Wildlife Development Agency (23-27 November 1997).
- 5) **"Pest Control Technology" Certificate** was awarded for completing the correspondence course at Purdue University (1994).
- 6) **Computer Experience**: Experience with Microsoft Office, Statistical Analysis System (SAS) and SPSS.
- 7) **Experience** in Statistical Methods and Experimental Design.

Consultancies:

Agricultural and environmental consultancies were extensively conducted during the last 30 years in USA and UAE. Major consultancies were related to the development of integrated pest management systems and strategies, preparation of pest & pesticide management databases, date palm production and protection, pest control plans for developers of real estate and historical buildings, food safety and sanitation inspections, environmental health and pesticide regulation and legislation, education and training programs on pest management, pesticides, and food safety, and expert witness in legal investigation in the field of Forensic Entomology and Pesticides.

Administrative Experience - Organizational of National Conferences

- **1-** Chaired the organizing committee for the First Symposium on *Integrated Pest Management* in the United Arab Emirates (Present Status and Future Outlook), UAE University, 2005.
- **2-** Member of the Organization Committee of the Second and third International Conference on Date Palm (refereed), Al-Ain, UAE. 2001 & 2005.

Names and Addresses of Professional Referees

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(3) Abdel-Mohsen Onsy Mohamed, Ph.D

Professor

Associate Provost and Chief Academic Officer

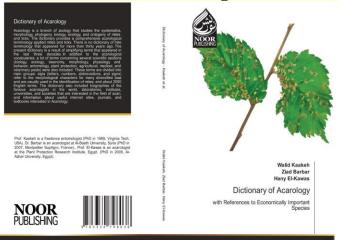
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Publications of **Prof. Walid Kaakeh**

Scientific Dictionaries (English – Arabic)



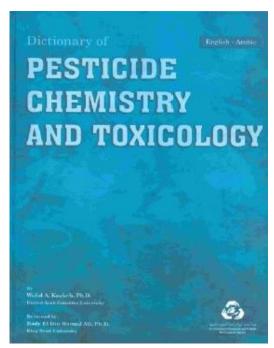
Dictionary of Acarology 2025 (633 p. in color)



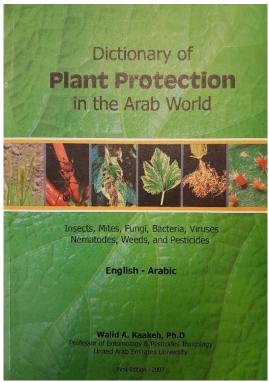
Dictionary of Weeds in the Arab World 2020 (535 p.)



Dictionary of Forensic Entomology 2021 (350 p.)



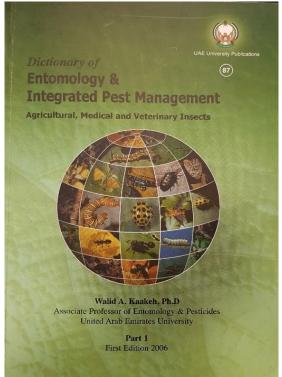
Dictionary of Pesticide Chemistry and Toxicology- 2004 (382 p.)



Dictionary of Plant Protection in the Arab World - 2007 (720 p.)

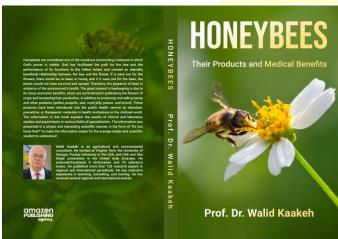


Dictionary of Environment and Pollution 2004 (516 p.)



Dictionary of Entomology and Integrated Pest Management - 2006 (1320 p. 2 volumes)

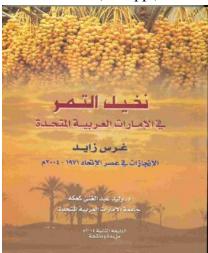
Authored Scientific Books



Honeybees: Their Products and Medical Benefit – 2024 (252 p., in <u>English</u>)



Diseases and Pests of Date Palm 2020 (332 pp.)



Date Palm in the United Arab Emirates: Zayed Planting - 1971 to 2004 - 2004 (7224 p.)



Date Palm in the United Arab Emirates from 1971 to 2019 - 2019(324 p.)



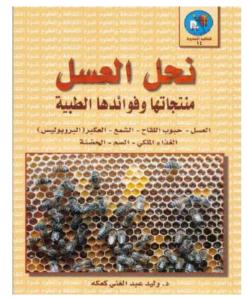
The Red Palm Weevil: The Most Dangerous Agricultural Pest - 2001 (165 p.)



The Most Important Insects and Diseases on Date Palm - 2021 (50 p.)



Forensic Entomology: Detection Methods in Legal Investigations – 2011 (880 p.)



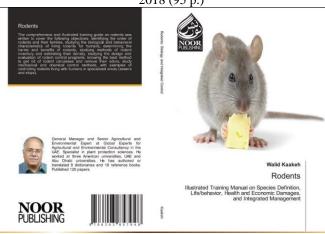
Honeybees: Their Products and Medical Benefit – 2000 (265 p., in <u>Arabic</u>)



List of Agricultural Insects in United Arab Emirates – 2018 (95 p.)



Mosquitoes and Midges - 2021 (110 p.)



Rodents: Illustrated and Comprehensive Guide (English Edition) - 2014 (220 p.)



Rodents: Illustrated and Comprehensive Guide (Arabic Edition) - 2021 (148



وليد عبد الفنى محتمه أ**دوات ومعدات مكافحة الأفات** ادوات ومعدات الفحص والتعليين، مسيانة ومعايرة المعدات



الدائل الكار شر الشارك برسم الميانات / المائد المسائل و بالمائد المسائل و بالمائد المائد الم





Tools and Equipments of Pest Control 2021 (102 p.)



Occupational Health and Safety in Agriculture: Farmers and Agricultural Extension Workers

Training Manual – 215 p.



Sustainabl Development in Agriculture and Food Safety Sectors: Environmental, Economical, At Social Impacts – 150 p.



الأستاة التكثور وليد عد القي كعكه مكافحة الأفات في المنشآت المتخصصية الأفات النترق تواجدها، أسكن الإصابة الرئيسية، النصابح الراجب البناعية التاء عمليات العمس والمكاهمة في كل ماشاة





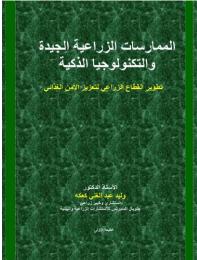




Pest Control in Specialized Facilities - 2021 (117 p.)



Research, Development and Studies: Capacity Building, Knowledge Management, and Technology Transfer – 135 p.

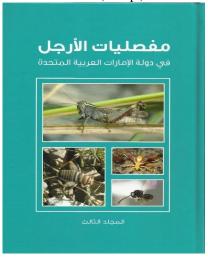


Good Agricultural Practices and Smart Technology: Developing the Agricultural Sector to Enhance Food Security. 275 p.

Translated Scientific Books (English to Arabic)



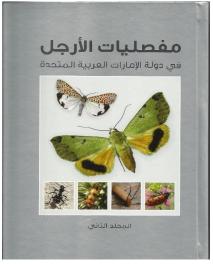
Arthropod Fauna of the UAE (volume 1). 2011 (820 p.)



Arthropod Fauna of the UAE (volume 3). 2011 (813 p.)



The Safe and Effective Use of Pesticides. Volume 1-2001 (425 p.)



Arthropod Fauna of the UAE (volume 2). 2011 (880 p.)



Manual of Field Trials in Crop Protection 2008 (612p.)

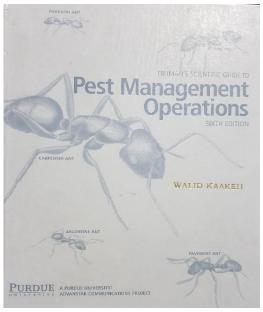


The Safe and Effective Use of Pesticides. Volume 2-2001 (350 p.)

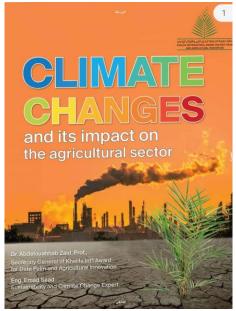
Edited Book, Review Book, and Book Chapters



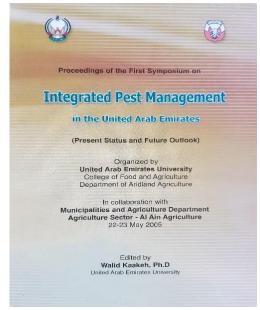
Zayed ... Agriculture and Date Trees. Book Chapter: Zayed and Date Palm of UAE (14 p) – 2018.



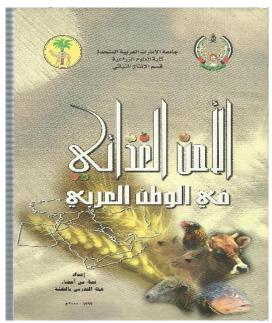
Truman Scientific Guide to Pest Management Operations. Sixth Edition. Book Review



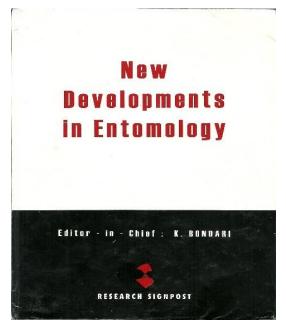
Climate Changes and Its Impact on the Agricultural Sector. Book Chapter: Artificial Intelligence in the Service of Climatic Agriculture (15 p) - 2023



Integrated Pest Management in the United Arab Emirates. Editing and Book Chapter: The Safe Use of Pesticides, pages - 2005 (72 p.)



Food Security in The Arab World Book Chapter: Humam Resources – 1999 (20 p.).



New Development in Entomology Book Chapter: Aphid-host Plant Interactions in Pecan - 1997 (9 p.)