

## RESUME

1. **Name:** Micheal D.K. Owen
2. **Title:** Professor and Weed Science Extension Specialist
3. **Specialization:** Weed Science
4. **Educational Background:**

<u>Degree</u>	<u>Institution</u>	<u>Major Field(s) of Study</u>	<u>Dates</u>	<u>Date of Degree</u>
B.S.	Iowa State Univ.	Botany/Physiology	1969-1974	1974
M.S.	Iowa State Univ.	Botany/Weed Physiology	1974-1975	1975
Ph.D.	Univ. of Illinois	Agronomy/Weed Science	1977-1982	1982

### 5. Professional Experience:

<b>Employer</b>	<b>Position</b>	<b>Nature of work</b>	<b>Location</b>	<b>Dates</b>
Iowa State Univ.	Research Asst.	Weed Science	Ames, IA	1974-1975
Amer. Cyanamid	Agriculturalist	Pest. Res./Dev.	IL and MO	1975-1977
Univ. of IL	Assoc. Agronomist	Weed Sci./Agron.	Urbana, IL	1977-1981
Univ. of IL	Agronomist	Weed Sci./Agron.	Urbana, IL	1981-1982
Univ. of FL	Asst. Prof.	Weed Sci./Agron.	Gnsvile, FL	1982
Iowa State Univ.	Asst. Prof./Ext. Spl.	Weed Science	Ames, IA	1982-1985
Iowa State Univ.	Assoc. Prof./Ext. Spl.	Weed Science	Ames, IA	1985-1991
Iowa State Univ.	Professor/Ext. Spl.	Weed Science	Ames, IA	1991-present
Zamorano Univ.	Adjunct Professor	Dept. Crop Prot.	Honduras	1994-present
Iowa State Univ.	Pioneer Professor	Weed Science	Ames, IA	1997-2001
Iowa State Univ.	Director, Integrated Crop Management	Administration	Ames, IA	2001-2007
Iowa State Univ.	Program Leader Agronomy Ext.	Administration	Ames, IA	2001-2008
Iowa State	Director, Agribus.	Administration	Ames, IA	2001-2008

Univ.	Ed. Prog.			
Iowa State Univ.	Assoc. Chair, Agronomy Dept.	Administration	Ames, IA	2006-present
Iowa State Univ.	University Professor	Weed Science	Ames, IA	2013-present

## 6. Administrative Responsibilities:

Associate Chair – The Agronomy Department at Iowa State University employs 78 faculty, collaborators, lectures and affiliates, and 118 professional and scientific, clerical, and technical employees. There are 287 undergraduate students, 109 resident and 118 off-campus M.S. and Ph.D. candidates. Current duties include oversight of the curriculum, management of departmental space and laboratories, oversight for the Baker Information Technology Laboratory, and administrative duties for Professional and Scientific staff. The Associate Chair also has responsibilities for personnel actions, position statements, and grant application oversight.

## 7. Professional Development:

Iowa State University College of Agriculture Promotion & Tenure Workshops. Two workshop sessions on how to develop an effective promotion and tenure document and how the process functions. Completed in April 2006.

Experiment Station Committee on Organization and Policy (ESCOP)/Academic Committee on Organization and Policy (ACOP) Leadership Development Program – Class 13 member. Completed in March 2004.

USA Hockey Western Regional Hockey Officiating School – one of 50 participants selected from the Western Region of the United States. The one week school emphasizes management skills, meeting organization, and training/mentoring for USAHockey referees. However these skills have been useful in other administrative scenarios. Completed in April 2003.

## 8. Iowa State University Service:

### University

Faculty Senate Past President, 2011-2012

Faculty Senate President, 2010-2011

Faculty Senate President-elect, 2009-2010

Faculty Senate, 1998-2004, 2005-2012 and 2013-present

Faculty Conduct Review Board, 2001-present

Faculty Conduct Review Boards (FRB 002, FRB 003, FRB 018, FRB 024 and FRB 43)

Faculty Conduct Review Board Chair (FRB 003, FRB 018 and FRB 024)  
 Faculty Senate Resources Planning and Allocations Council, 1999-200, 2003-2012 and 2013-present  
 Faculty Senate College of Agriculture and Life Sciences Caucus Chair, 2002-2004 and 2005-2009  
 Faculty Senate Executive Board, 2002-2004, 2005-2012 and 2013-present  
 Faculty Senate Executive Board Task Force on Responses to MGT-America Report and to the 2002-2003 Iowa State University Budget, 2002-2003  
 Faculty Senate Executive Board Task Force to investigate the College of Veterinary Medicine, 2005  
 Faculty Senate Annual Conference Planning Committee, 2005-present, chair 2009-2010  
 Faculty Senate Committee on Committee, 2005-present, chair 2009  
 VEISHA Advisory Council, Faculty Representative, 2005-present  
 Faculty Senate Advisory Committee for Business and Finance, chair, 2005-2013  
 Faculty Senate *ad hoc* Advisory Committee for Student Affairs, chair, 2008-present  
 Faculty Senate Executive Board Task Force to investigate Non-tenure Eligible Faculty Appointments, 2006-2007  
 Faculty Senate Executive Board Task Force to Examine Limits on Percentage of Non-Tenure Eligible Faculty, 2008-present  
 Faculty Senate Executive Board Task Force for Post Tenure Review, Chair 2009-2010  
 Faculty Senate Executive Board Task Force to Review the Resource Management Model, 2011  
 Faculty Senate Executive Board Task Force for the Office of the Executive Vice President and Provost Review Committee, 2011  
 Faculty Senate Executive Board Non-Tenure Eligible Faculty Task Force, 2012  
 Faculty Senate Governance Council, 2009- present  
 University Budget Advisory Committee, 2009-2012  
 CELT Advisory Committee, 2009-2012  
 University Policy Development Plan Committee, 2009-present  
 Iowa State University Strategic Plan Committee - Treasure for Iowa, the Nation and the World Task Force, 2009-2010  
 Resource Management Model Student Affairs Advisory Committee, 2007-present  
 Resource Management Model Business and Finance Advisory Committee, 2012-present  
 Judiciary and Appeals Council, Chair, 2013-present  
 Compensation Committee, Chair, 2013-present  
 Search Committee for Vice President of Extension and Outreach, 2010  
 Search Committee for Associate Provost, 2010  
 Search Committee for Associate Vice President in Human Resource Services, 2011  
 Library Advisory Committee, 2010  
 Faculty Adviser for Fraternity of Phi Gamma Delta, 1988-present  
 Faculty Adviser for ISU Men's Hockey Club, 1998-2003  
 Faculty Advisor, ISU Hockey Cheerleaders, 1998-2003  
 Faculty Adviser for ISU Women's Hockey Club, 1996-2006  
 Assistant coach for ISU Women's Hockey Club, 2002-2006  
 Faculty Adviser for ISU Baseball Club, 2003-2009

## **College of Agriculture**

Faculty Senate Ag Caucus, 1997-2011, 2013-2016  
 Faculty Senate Ag Caucus Chair, 2002-2004 and 2005-2009  
 College of Agriculture and Life Sciences Integrated Crop Management, Director, 2001-2007  
 Iowa Grain Quality Initiative, Agronomy Department Representative, 2002-2008  
 Iowa Ag Quality Initiative, Agronomy Department Representative, 2002-2008  
 College of Agriculture and Life Sciences Crop Production and Protection Leadership Group, 2002-2008  
 College of Agriculture and Life Sciences Corn and Soybean Initiative, 2002-2005  
 College of Agriculture and Life Sciences Strategic Plan Committee, 2000-2002  
 College of Agriculture Crop Production and Protection Executive Group, 2001-2008  
 College of Agriculture and Life Sciences *Ad Hoc* Budget Reduction Committee  
 College of Agriculture and Life Sciences Deans Review Committee, 2009-2010

## **Department of Agronomy**

Agronomy Extension Panel, 1986-present  
 Plant-Climate Relationships Committee, 1986-present  
 Agronomy Department Lecture Committee member, 1986-present  
 Staniforth Lecture Committee Chair, 1986-present  
 Agronomy Experimental Farm Committee, Chair, 1996-present  
 Faculty Senate, 1998-2004, 2005-2011, 2013-2016  
 Agronomy Day Committee Co-chairperson, 1998  
 Agronomy Strategic Planning Advisory Council, 1999-present  
 Agronomy Advisory Council, 2002-present  
 Agronomy Extension Panel, Chair, 2002-2008  
 Extension Education Committee, Chair, 2002-present  
 Agribusiness Education Committee, Ex Officio, 2002-2008  
 Agronomy Extension Soybean Production Specialist Search Committee, Chair, 2003  
 Agronomy Extension Corn Production Specialist Search Committee, Chair, 2004  
 Agronomy Department Associate Chair, 2006- present  
 Agribusiness Education Program Director, 2001-2008  
 Agronomy Research Farm Committee, Chair, 1995 to present  
 Agronomy Reorganization Committee, Chair, 2011 to present  
 Agronomy Governance Document Committee, Chair, 2006 to present  
 Numerous *ad hoc* committees

## **9. Professional and Scientific Organizations:**

### **Weed Science Society of America, 1979-present**

WSSA Weed Alert Committee, 1985-1989

Historical and Archives Committee, 1984-1994; Chairman, 1987-1989, 1992-1994, 2007-2010; State Liaison, 1994-present

Parent Awards Committee, 1986-1988  
 Industry Awards Subcommittee Chairman, 1986-1988  
 Photo Contest Subcommittee, 1990-1994  
 Program Committee, 1989-1991  
 Agronomic Crops Section Co-Chair, 1990  
 Agronomic Crops Section Chair, 1991  
 Monographs Committee, 1996-1998  
 Associate Editor for Weed Technology, 1996-2001, 2003-2007  
 Membership and Affiliation Committee, 2001-2004 Chair, 2007-2010  
 Publications Board, 1998-2002  
 Research Committee, 1998-2002  
 Liaison to American Society of Agronomy, 1997-2004  
 Liaison to Crop Science Society of America, 1997-2004  
 Outstanding Paper in Weed Science Committee, 2002-present, Chair 2007-present  
 WSSA Board of Directors, 2008-2012  
 Member at Large, 2008-2012

#### **North Central Weed Control Conference, 1973-present**

Board of Directors, 1984-1988; Iowa Director, 1984-1987  
 Publications Committee, 1983-87; Chairman, 1984; 1987-1988, 1993-1994  
 Weed Contest Committee, 1985, 1988  
 Weed Loss Committee, 1985, 1988, 1993-1995  
 Computer Committee, 1985-1987; Chairman, 1985-1986  
 Program Committee, 1986-1990, 1995; Equipment Section Chairman, 1986-1987; Extension  
     Section Chairman, 1987-1988, 1996-1997; Resident Education Chairman, 1989-1990;  
     Research and Publications Chairman, 1995-1996  
 Director at Large, Extension, 1987-1988  
 Director at Large, Resident Education, 1989-1990  
 Local Arrangement Committee, 1989-1990; Chairman, 1989-1990  
 Resident Education Committee, 1988-1989; Second Vice Chairman, 1988-1989; Chairman,  
     1989-1990  
 Legislative Information Committee, 1988-1990  
 Summer Contest Rules Subcommittee, 1988-1991; Second Vice Chairman, 1988-1989;  
     Chairperson, 1989-1990  
 Graduate Student Poster Committee, Chairman, 1988-1989  
 NCWSS Collegiate Weed Science Contest Local Arrangements Committee, 1989-1990  
 NCWSS North Central Regional Publications Committee, 1998; State Liaison, 1985-present  
 NCWSS Distinguished Achievement Award Committee, 1998-2000  
 NCWSS Extension Committee, Chairman 1996-1997, 1998-2001  
 Finance, Steering and Policy Committee, 1991-1994  
 Long Range Planning and Organizational Affairs Committee, 1991-1994; Vice Chairman,  
     1991-1992; Chairman, 1992-1993, 2008-2012  
 Herbicide Resistance Committee, 1991-present; Chairman, 1995  
 Publicity and Public Relations Committee, 1992  
 Future Site Selection Committee, 1993-1995

Research and Publications Special Interest Committee, 1994; Vice Chairman, 1994;  
Chairman, 1995

**International Weed Science Society, 1988-present**

Newsletter Editor, 2009-2010

**Iowa Fertilizer and Chemical Association, 1982-1995;** Board of Directors, Ex Officio,  
1989-1995

**Iowa Agribusiness Associations, 1995-present**

Board of Directors, Ex Officio, 2002-2008

**American Society of Agronomy, 1987-present**

Iowa Secretary, 1990

**Crop Science Society of America, 1987-present**

**European Weed Research Society, 1988-present**

CAST, 1982-present

**American Soybean Association Diagnostic Guide Committee, 1987-1988**

**Polk County Multiflora Rose Reporting Committee, 1982-1986**

**Epsilon Sigma Phi, 1982-present**

**10. Special Professional or Scientific Assignments, Sabbaticals, Consulting, Awards:**

**Selected Invited Presentations**

New Mexico State University, 1984

American Soybean Association, 1984

Iowa Fertilizer and Chemical Association, 1984, 1985, 1986, 1991

Northrup King Soybean Symposium, 1983

Asgrow Seed Company, 1983, 1985, 1988

Spraying Systems, Inc., 1985

reBuckley and Busch, Inc., 1984, 1985

Northrup King Corn Symposium, 1984

Land O'Lakes Dealer Training, 1984

DeKalb Research Field Day, 1984, 1985

Farmland Agriculture Research Advisory Council, 1983-1994

CIBA-GEIGY Corn Symposium, 1985

Elanco Seminar, 1987, 1989

Roadside Vegetation Management Conference, 1987

FMC Command Symposium, 1985, 1986, 1990

American Cyanamid Scepter Symposium, 1985, 1986, 1987  
American Cyanamid Pursuit Symposium, 1988, 1993  
UpJohn Company, 1988, 1994  
University of Minnesota Crop Pest Management Short Course, 1988  
Illinois Agricultural Pesticides Conference, 1989  
Illinois Weed Affiliates Annual Conference, 1989  
National Integrated Pest Management Conference, 1989, 1994  
University of Iowa Botany Seminar, 1988  
National Ridge Till Conference, 1989, 1991  
Nebraska Crop Consultants Annual Meeting, 1989  
FMC Advantage Symposium, 1990  
Ciba-Geigy Beacon Symposium, 1990, 1992  
Eurotech Corn Tour, 1990  
Garst Herbicide Resistance Crop Symposium, 1990, 1991  
Iowa State University Biotechnology Conference, Herbicide Resistant Crops, 1990, 1991, 1992  
Asgrow Seed Company Herbicide Resistant Crops Symposium, 1991  
Elk Horn Cooperative, 1991  
ICI, American Herbicide Resistant Weed Symposium, 1991  
Hertz Farm Management, 1991, 1992, 1994, 1995, 1996, 1997  
Asgrow Herbicide Resistant Crop Symposium, 1991  
ALS/AHAS Resistance Industry Working Group, 1992  
Growmark/FS Services Video Downlink Dealer Training, 1992  
ICI Herbicide/Insecticide Interaction Dealer Training, 1991  
Monsanto MON 12000 Conference, 1992  
Iowa Seed Association Annual Meeting, 1992  
Iowa State University Biotech Conference, 1991, 1992  
Sandoz SAN 582H Update, 1992  
International Notill Conference, Argentina SA, 1992  
4<sup>th</sup> Congreso Internacional Manejo Integrado de Plagas, Honduras CA, 1992  
DowElanco DE-498 Update, 1993  
5<sup>th</sup> Congreso Internacional Manejo Integrado de Plagas, Costa Rica CA, 1994  
Monsanto Glyphosate Tolerant Soybean Update, 1994  
DowElanco Flumetsulam Update, 1994  
University of Illinois Crop Protection Workshop, 1994, 1999, 2001  
International Symposium on Weed and Crop Resistance to Herbicides, Cordoba, Spain, 1995  
6<sup>th</sup> Congreso Internacional Manejo Integrado de Plagas, Acapulco, Mexico, 1996  
Brighton Conference, British Crop Protection Council, Brighton, UK, 1997  
7<sup>th</sup> Congreso Internacional Manejo Integrado de Plagas, Monte Le Mar, Nicaragua, 1998  
218<sup>th</sup> American Chemical Society National Meeting & Exposition, New Orleans, LA, 1999  
International Plant Protection Congress, Jerusalem, Israel, 1999  
University of Guelph, 1999  
International Weed Science Congress, Foz do Iguassu, Brazil, 2000  
Indiana CCA Training, Indianapolis, IN, 2000  
Cargill Agricultural College, Minneapolis, MN, 2000

Brighton Conference, British Crop Protection Council, Brighton, UK, 2001  
North Central Branch Entomological Society of America, East Lansing, MI, 2002  
Syngenta Herbicide Resistance Symposium, Greensboro, NC, 2002, 2003  
Australian Weed Science Society, Perth, 2002  
North Central Branch Entomological Society of America, Madison, WI, 2003  
North Central Regional American Society of Agronomy, Madison, WI, 2003  
XVI Congreso Asociacion Latinoamericana de Malezas (ALAM), Manzanillo, Mexico, 2003  
221<sup>th</sup> American Chemical Society National Meeting & Exposition, Anaheim, CA, 2004  
IX Congreso Internacional de Manejo Integrado de Plagas (MIP), San Salvador, El Salvador, 2004  
5<sup>th</sup> National IPM meeting, St. Louis, MO, 2006  
2006 Crop Pest Management Short Course, Minneapolis, MN, 2006  
National Association of Independent Crop Consultant, Atlanta, GA, 2007  
Monsanto Dealer Educational Seminar, Deadwood, SD, 2007  
Pioneer/DuPont Optimum GAT Academic Seminar, Johnston, IA, 2007  
North Central Branch Entomological Society of America, Winnipeg, Manitoba, Canada, 2007  
223<sup>rd</sup> American Chemical Society National Meeting and Exposition, Chicago, IL, 2007  
XVI International Plant Protection Congress, Glasgow, Scotland, 2007  
Symposium of the North Central Weed Science Society: Gene Flow Among Transgenic Plants and Their Wild Relatives: Implications for Risk Assessment, St. Louis, MO, 2007  
XI Congreso Internacional de Manejo Integrado de Plagas (MIP), Tegucigalpa, Honduras, 2008  
University of Iowa Genetics and Environment Seminar Series, Iowa City, IA, 2008  
6<sup>th</sup> International IPM Symposium, Portland, OR, 2009  
Panamerican Weed Resistance Conference, Miami, FL, 2010  
AgReliant Genetics Dealer Update, Omaha, NE, 2010  
Seed Solution Group Grower Update, Waterloo, IA, 2010  
FarmProgress Grower Update, Nevada, IA, 2010  
Windfield Solutions Dealer Update, Ames, IA, 2010  
239<sup>th</sup> American Chemical Society, San Fransico, CA, 2010  
OECD Conference “Decision Making and Science - the balancing of risk based decisions that influence sustainability of agricultural production”, Berlin, Germany, 2010  
Gowan Chemical Company Herbicide Resistant weed training, San Diego, CA, 2010  
Canadian Certified Crop Advisor Conference, London, Ontario, Canada, 2011  
Farm Tech Conference, Edmonton, Alberta, Canada, 2011  
University of Northen Iowa Museum Lecture Series, Cedar Falls, IA, 2011  
CropLife America & RISE 2011 Spring Conference, Washington DC, 2011  
Society for In Vitro Biology, Raleigh, NC, 2011  
Farm Progress Show, Decatur, IL, 2011  
Resistance 2011, Rothamsted Research, Harpenden, Hertfordshire, UK, 2011  
Canadian Weed Science Society, Niagra Falls, Ontario, Canada, 2011  
Canadian Food Inspection Agency, Ottawa, Ontario, Canada, 2012  
International Integrated Pest Management Symposium, Memphis, TN, 2012  
Global Herbicide Reistance Challenge, Fremantle, Australia, 2013  
Bayer Crop Science, Frankfurt, Germany, 2013



The Leroy and Barbara Everson Seed and Biosafety Symposium, Ames, IA, 2013  
 Department of Biological Sciences Seminar Series, Michigan Technological University,  
 Houghton, MI, 2013  
 American Chemical Society 246<sup>th</sup> meeting, Indianapolis, IN, 2013  
 Syngenta “Simposio No Malezas”, Buenos Aires, Argentina, 2013

### **Awards**

National Corn Growers Association Research Recognition Award, 1990  
 Raymond and Mary Baker Outstanding Agronomy Faculty Award, 1991  
 Weed Science Society of America Outstanding Extension Weed Scientist, 1992  
 Ciba-Geigy Agricultural Recognition Award, 1992  
 Iowa State University College of Agriculture Excellence in Research and Extension Award,  
 1993  
 North Central Weed Science Society Distinguished Achievement Award, 1995  
 Weed Science Society of America Outstanding Paper in Weed Technology, 1996  
 North Central Weed Science Society Fellow, 1997  
 Pioneer Agronomy Professorship 1997-2001  
 American Society of Agronomy Educational Materials Internet Web Site Award, 1999  
 MidAmerican Crop Protection Association Educator of the Year, 1999  
 Student Club Advisor Recognition Award, 2002  
 Sports Club Council Advisor of the Year, 2002  
 Weed Science Society of American Fellow, 2005  
 Regents Faculty Excellence Award, 2007  
 American Society of Agronomy Educational Materials Award, 2007  
 Iowa State University College of Agriculture and Life Sciences Outstanding Achievement in  
 Extension Award, 2008  
 Iowa State University Student Affairs Faculty Appreciation and Recognition Award, 2008  
 American Society of Agronomy Fellow, 2009  
 Crop Science Society of America 2009 Crop Science Extension Education Award, 2009  
 Crowder Cup, Fraternity of Phi Gamma Delta Award for the most outstanding faculty advisor  
 - Distinguished Service, 2010  
 Russ Moore Distinguished Service Award, Ames Minor Hockey Association, 2011  
 Gamma Sigma Delta, 2011  
 Council for Agricultural Science and Technology Educational Materials Award, 2012

### **Scientific Assignments**

Reviewer, Western Region Integrated Pest Management Research Program, 1991, 1993, 1998  
 Review Team Member, CSRS Review, University of Arkansas Center for Alternative Pest  
 Control Research, 1998  
 Lecturer, University of Costa Rica, San Pedro, Ph.D. program in Sustainable Tropical  
 Agriculture, 1996-2002

Adjunct Professor of Weed Science, Department of Vegetable Protection, Escuela Agricola Panamericana, el Zamorano, Honduras 1990-present  
 Review Team Member, CSRS Review, Crop Science Department, University of Illinois, 1999  
 Co-Farm meeting to promote agricultural funding in Washington DC, April 2007  
 CSREES IPM Competitive Grants Review Committee, Washington DC, 2009  
 National Research Councils of the National Academies of Science on the Impact of Biotechnology on Farm Economics and Sustainability, 2008-2010  
 Council for Agricultural Science and Technology Task Force to write CAST Issue Paper on "Convergence and Conservation Tillage and Weed Resistance", 2010-2011  
 National Research Councils of the National Academies of Science Herbicide Resistant Weed Summit, steering committee, 2011-2012

## **11. Publications and Papers:**

### **Papers (Selected) Published in Meeting Proceedings (67 total 1/24/13)**

- Owen, Micheal D.K. 1981. Controlling Problem Perennial Broadleaf Weeds. Thirty-third Illinois Custom Spray Operators' Training School Handbook.
- Owen, Micheal D.K. 1981. Illinois Weed Survey. Thirty-third Illinois Custom Spray Operators' Training School Handbook.
- Owen, M.D.K. 1982. Avoiding problems with herbicides. Thirty-fourth Illinois Custom Spray Operators' Training School Handbook.
- Owen, M. 1984. Diagnosing herbicide injury of soybeans. Proc. Iowa State University Soybean Workshop.
- Owen, M., D. Staniforth and R. Fawcett. 1984. Soybean oil as an alternate to petroleum oils for herbicide application. Proc. Ag-Chem. User of Soybean Oil.
- Fawcett, Richard S. and Micheal D.K. Owen. 1984. Weed Control Guide for 1984. Proc. 36th Fert. and Ag-Chem. Dealers Conf.
- Owen, Micheal D.K. 1984. Weed Control for PIK Acres. Proc. Fert. and Ag-Chem. Dealers Conf.
- Owen, Micheal D.K. 1984. Factors Affecting Weed Control. Proc. Fert. and Ag-Chem. Dealers Conf.
- Owen, Micheal. 1985. Herbicide update. Proc. Fert. and Ag-Chem. Dealers Conf.
- Owen, Micheal. 1985. New weed problems. Proc. Fert. and Ag-Chem. Dealers Conf.

- Owen, Micheal D.K. and Richard S. Fawcett. 1985. Weed control guide for 1985. Proc. Fert. and Ag-Chem. Dealers Conf.
- Owen, Micheal D.K. and Richard S. Fawcett. 1985. Weed control in small grains, pastures and legume forages. Proc. Fert. and Ag-Chem. Dealers Conf.
- Owen, M. 1985. Diagnosing herbicide injury to soybeans. Proc. Iowa State University Soybean Workshop.
- Owen, Micheal. 1986. Herbicide update. Proc. Fert. and Ag-Chem. Dealers Conf.
- Owen, M. 1986. Diagnosing herbicide injury to soybeans. Proc. Iowa State University Soybean Workshop.
- Owen, Micheal D.K. 1986. Weed control guide for 1986. Proc. Fert. and Ag-Chem. Dealers Conf.
- Owen, Micheal D.K. 1986. Weed control for small grains, pastures and legume forages. Proc. Fert. and Ag-Chem. Dealers Conf.
- Owen, M. 1987. Diagnosing herbicide injury to soybeans. Proc. Iowa State University Soybean Workshop.
- Owen M. 1988. Environmental interaction and herbicide additives. Crop Pest Management Short Course Proceedings. University of Minnesota.
- Owen, M. 1988. Diagnosing herbicide injury to soybeans. Proc. Iowa State University Soybean Workshop.
- Owen, M. 1989. Environmental effects on herbicide performance and residual. Proc. Illinois Agricultural Pesticides Conference.
- Owen, Micheal D.K. 1989. Weed science update 1990. Proc. Crop Production and Protection Conference. Iowa State University.
- Owen, Micheal D.K. 1989. Effect of environmental conditions on weed/herbicide interactions. Proc. Crop Production and Protection Conference. Iowa State University.
- Owen, Micheal D.K. 1989. Tillage and weed management. Proc. Crop Production and Protection Conference. Iowa State University.
- Owen, Micheal D.K. 1990. Woolly cupgrass biology and management. Proc. Crop Production and Protection Conference. Iowa State University.

- Owen, Micheal D.K. 1990. Herbicide resistance in crops and weeds. Proc. Crop Production and Protection Conference. Iowa State University.
- Owen, Micheal D.K. 1990. Herbicide injury to soybeans. Proc. Iowa State University Soybean Workshop.
- Owen, Micheal D.K. 1991. Herbicide injury to soybeans. Proc. Iowa State University Soybean Workshop.
- Owen, Micheal D.K. 1991. Herbicide Resistance: Crops and Weeds. Proc. Crop Production and Protection Conference. Iowa State University.
- Owen, Micheal D.K. 1991. Weed Seed Dormancy and Germination. Proc. Crop Production and Protection Conference. Iowa State University.
- Owen, Micheal D.K. 1992. Labranza Conservacionista Consideraciones Generales. Proc. International Notill Congress. Cordoba State, Argentina SA.
- Owen, Micheal D.K. 1992. Desarrollo de Nuevos Herbicidas y su Aplicabilidad al MIP. Proc. 4th Congreso Interncional Manejo Integrado de Plagas. Zamorano, Tegucigalpa, Honduras CA.
- Owen, Micheal D.K. 1992. Theory and Practice: Weed Management in No Tillage Soybeans. Proc. Crop Production and Protection Conference. Iowa State University.
- Owen, Micheal D.K. 1994. Herbicide injury to soybeans. Proc. Iowa State University Soybean Workshop.
- Owen, Micheal D.K. 1994. Herbicide Resistance and Management Recommendations from the Land Grant System. Proc. Ill. Crop Protection Workshop. University of Illinois.
- Tylka, Gregory L., Larry P. Pedigo, and Micheal D.K. Owen. 1994. Soybean planting date for preventive management of a nematode-weed-insect complex. Proc. Second Nat. IPM Workshop.
- Owen, Micheal D.K. 1995. Weed management update. Proc. Integrated Crop Management Conference. Iowa State University. 7:259-266.
- Owen, Micheal D.K. 1996. Weed management update. Proc. Integrated Crop Management Conference. Iowa State University. 8:199-204.
- Owen, Micheal D.K. 1998. Weed management update, 1999. Proc. Integrated Crop Management Conference. Iowa State University. 10:161-168.

- Owen, Micheal D.K. 1999. Woolly cupgrass and waterhemp: An Iowa perspective. Proc. Illinois Crop Protection Technology Conference. University of Illinois at Urbana-Champaign. p. 74-83.
- Owen, Micheal D.K. 1999. Weed management update for the next millennium. Proc. Integrated Crop Management Conference. Iowa State University. 11:305-310.
- Owen, Micheal D.K. 2000. Weed management update, 2001. Proc. Integrated Crop Management Conference. Iowa State University. 12:155-160.
- Owen, Micheal D.K. 2001. Resistance management concerns in weed science. Proc. Illinois Crop Protection Technology Conference. University of Illinois at Urbana-Champaign. p. 45-48.
- Owen, Micheal D.K. 2003. Weed management in precision agriculture. Proc. XVI Congreso Latinoamericano de Malezas. p. 46-53 (in CD)
- Owen, Micheal D.K. 2003. Weed Management Update: Herbicides, Carryover, Weed Shifts, and Resistance. Proc. Integrated Crop Management Conference. Iowa State University. 15:89-94.
- Owen, Micheal D.K. 2004. Weed management 2005: weed shifts, herbicide resistance, issues and opportunities. Proc. Integrated Crop Management Conference. Iowa State University. 16:117-122.
- Owen, Micheal D.K. 2005. Update 2005: herbicide resistant weeds and weed population shifts. Proc. Integrated Crop Management Conference. Iowa State University. 17:55-60.
- Owen, Micheal D.K. 2005. The current state of herbicidal weed control. Proc. Integrated Crop Management Conference. Iowa State University. 17:61-66.
- Owen, Micheal D.K. 2006. Herbicide resistance, weed population shifts, and weed management stewardship: Is anything new? Proc. Integrated Crop Management Conference. Iowa State University. 18:143-149.
- Owen, Micheal D.K. 2006. Weed management update – who cares? Proc. Integrated Crop Management Conference. Iowa State University. 18:149-153.
- Owen, Micheal D. K. 2007. Weed management in 2008: New opportunities, existing issues and anticipated problems. Proc. Integrated Crop Management Conference. Iowa State University. 19:157-168.
- Owen, Micheal. 2007. Weed Stuff. Proc. Crop Advantage Series. Iowa State University. 1:22.
- Owen, Micheal. 2008. New opportunities, existing issues and anticipated problems in weed

- management. Proc. Crop Advantage Series. Iowa State University. 2:21.
- Owen, Micheal D. K. 2008. Update in weed management 2009 – has the silver bullet been developed? Proc. Integrated Crop Management Conference. Iowa State University. 20:191-198.
- Owen, Micheal D. K. 2008. Is there a need for stewardship or is killing weeds good enough? Proc. Integrated Crop Management Conference. Iowa State University. 20:183-190.
- Owen, Micheal. 2009. Dealing with weed management issues in the Roundup Ready era: Stewardship must be implemented. Proc. Crop Advantage Series. Iowa State University. 3:17.
- Owen, Micheal D. K. 2009. Weed management update 2010. Proc. Integrated Crop Management Conference. Iowa State University. 21:59-64.
- Owen, Micheal D. K. 2009. The evolution of herbicide resistant weeds in Iowa: description, implications, and solutions. Proc. Integrated Crop Management Conference. Iowa State University. 21:65-70.
- Owen, Micheal. 2010. The cost of convenience: lost yield potential and glyphosate resistant weeds. Proc. Crop Advantage Series. Iowa State University. 4:17.
- Owen, Micheal D. K. 2010. Weeds 2011: What is new, herbicide-resistant weeds and management tactics. Proc. Integrated Crop Management Conference. Iowa State University. 22:83-96.
- Owen, Micheal D. K. 2011. Herbicide resistance issues in the USA – A philosophical yet practical perspective. Proc. Farm Tech Conf. 2011: 95-100.
- Owen, Micheal D.K. 2011. Weed management for 2012. Proc. Integrated Crop Management Conference. Iowa State University. 23:41-44.
- Owen, Micheal D.K. 2011. Herbicide-resistant weeds: An evolving problem of importance in Iowa crop production. Proc. Integrated Crop Management Conference. Iowa State University. 23:45-48.
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Owen, M. D. 2013. Update of herbicide resistances in common waterhemp: an Iowa perspective. Abs. WSSA. 53:265.

Owen, Micheal D.K. 2013. Iowa survey of herbicide resistances in common waterhemp including glyphosate and other herbicides. Abs. Amer. Chem. Soc. 246:99.

## 12. Graduate Student Research Directed (48 total 10/19/11):

Bello, I.A. M.S. Intra and interspecific competition of velvetleaf and effects on seed production, dormancy and germination characteristics. Graduated Spring 1986.

Neuberger, B.A. M.S. Herbicide movement in the soil as affected by herbicide formulation, soil texture and surface crop residue. Graduated Spring 1986.

Pitty, A. Ph.D. Effects of environmental conditions on velvetleaf and quality and the relationship to herbicide penetration. Graduated Spring 1988. **Research Excellence Award.**

Jungman, S. M.S. Effect of crop production systems and edaphic environment on imazaquin and imazethapyr herbicides. Graduated Spring 1989.

Bello, I.A. Ph.D. Seed production and germination characteristics of woolly cupgrass [*Eriochloa villosa* (Thumb.) Kunth.] Graduated Fall 1988.

Oyazabal, E. M.S. Shattercane [*Sorghum bicolor* (L.) Moench] biology as affected by different agronomic practices. Graduated Spring 1989. **Research Excellence Award.**

Oyazabal, E.S. Ph.D. Effect of weed water stress on postemergence herbicide activity. Graduated Spring 1991.

Kotile, D. M.S. Effect of crop management strategies on weed and weed seed population. Graduated Spring, 1992.

Levene, B. M.S. Effect of moisture stress on bentazon performance for cocklebur (*Xanthium strumarium*) and velvetleaf (*Abutilon theophrasti*). Graduated Summer, 1992.

Hinz, J. M.S. Effect of drought stress on velvetleaf growth and bentazon efficacy. Graduated Summer, 1992.

Hatterman-Valenti, H. Ph.D. Spray deposition and drift during postemergence herbicide applications to turfgrass and annual flowers. Graduated Fall, 1993.

Pecinovsky, K. M.S. Woolly cupgrass [*Eriochloa villosa* (Thunb.) Kunth.] and giant foxtail (*Setaria faberi* L. Herrm) competition and herbicide tolerance. Graduated Spring, 1994.

Franzenburg, D. M.S. Effect of geographic location on woolly cupgrass [*Eriochloa villosa* (Thunb.) Kunth.] seed dormancy. Graduated Spring, 1994.

Vega, Jamie E. M.S. Johnsongrass biology, control and associated organisms in Honduras. Graduated Fall, 1995.

Hinz, J. Ph.D. Selectivity of nicosulfuron and primisulfuron in three annual grasses. Graduated Fall, 1995. **Research Excellence Award.**

Levene, B. Ph.D. Response of soybean cyst nematode to herbicide application on soybeans. Graduated Fall, 1995.

Jufri, A. M.S. Effect of soil disturbance and plant size on glyphosate efficacy. Graduated Spring, 1995.

Wooley, C. M.S. Effect of tillage and herbicides on woolly cupgrass [*Eriochloa villosa* (Thunb.) Kunth] populations. Graduated Spring, 1995.

Hoiland, E. M.S. Sorghum alnum (*Sorghum alnum* Parodi) biology as affected by crop management practices. Graduated Fall, 1996.

Zelaya, I. M.S. Effect of tillage and environment on weed population dynamics and germination characteristics of eight weed species from the dry tropics. Graduated Summer, 1997.

Franzenburg, E. M.S. Effect of sub lethal herbicide dosage on weed seed development. Withdrawn.

Cortilet, A. M.S. Effect of biological control agents on purple loosestrife biology. Graduated Fall 1998.

Medina, J. Ph.D. Interaction of rapeseed (*Brassica napus* L.) residue management and smother crops for weed control in soybean [*Glycine max* (L.) Merr.] and corn (*Zea mays* L.). Graduated Fall 1998.

- Lee, J. M.S. Comparing common cocklebur (*Xanthium strumarium* L.) biotypes for ALS resistance, dry matter yield, and photoperiod differences. Graduated Spring 1999.
- Liu, M. Ph.D. Nicosulfuron tolerance and population dynamics of woolly cupgrass (*Eriochloa villosa*). Graduated Spring 1999.
- Felix, J. Ph.D. Weed/weed seedbank and soil fungi responses to tillage and cropping systems. Graduated Spring 1999.
- Adam, K. M.S. Characterization of sethoxydim-resistant giant foxtail (populations. *Setaria faberi*) in Iowa. Graduated Spring 1999.
- Nelson, B. M.S. Investigations of woolly cupgrass [*Eriochloa villosa* (Thunb.) Kunth.] interference in corn (*Zea mays* L.). Graduated Spring 1999.
- Pilcher, Clint. Ph.D. Phenological, physiological, and ecological influences of transgenic *Bt* corn on European corn borer management. Student was co-advised with Dr. Marlin Rice, Dept. of Entomology. Graduated Spring 1999.
- Mero, H. M.S. Effect of herbicide-resistant technology on soybean cyst nematode and weed population densities. Graduated Fall 2000.
- Vogt, M. M.S. Response of soybean (*Glycine max*) with the *Als1* gene to prosulfuron carryover. Graduated Spring 2000.
- White, Anthony. Ph.D. Characterization of acetolactate synthase resistance in common sunflower (*Helianthus annuus*). Graduated Spring 2002.
- Herrea, F. Ph.D. Effects of the type and quantity of mulch on weed populations, crop growth and soil microorganisms. Student is enrolled in the University of Costa Rica program in Sustainable Tropical Agriculture. Graduated Spring 2003.
- Monga, J. Ph.D. In progress. Research topic to be determined. Student is enrolled in the University of Costa Rica program in Sustainable Tropical Agriculture.
- Harbur, M. Ph.D. Effects of shading, relative growth rate and population density on weed responses to nitrogen management in corn. Graduated Spring 2003.
- Leon, Ramon. M.S. Environmental control of seed dormancy, germination, and seedling emergence of three weed species. Graduated Spring 2003.
- Swart, Brent. M.S. Effect of glyphosate on seed production and viability in several weed species. Graduated Spring 2004.

Zelaya, Ian. Ph.D. Selection of glyphosate resistance in *Amaranthus tuberculatus* (Mq. ex DC) J.D. Sauer and potential for transfer of glyphosate resistance in *Conyza*. Graduated Summer 2004. **Research Excellence Award.**

Leon, Ramon. Ph.D. Genetic and physiological characterization of seed dormancy regulation in common waterhemp [*Amaranthus tuberculatus* (Moq.) Sauer.] Graduated Summer 2005. **Research Excellence Award**

Van der Laat, Rocio. M.S. Post-dispersal predation of common lambsquarters and common waterhemp seeds in three tillage regimes. Graduated Summer 2005.

Ulloa, Santiago. M.S. Response of Asiatic dayflower (*Commelina communis* L.) to glyphosate and alternatives in soybean. Graduate Spring 2007.

Gomez, Jose. M.S. Evaluation of seed germination, dormancy, and glyphosate in Asiatic dayflower. Graduated Summer 2012.

Christian, Erik. Ph.D. In progress. Research project to be determined. Withdrawn.

Rehor, Brian. M. S. In progress. Assessment of corn root mass and response to biotic and abiotic stress. Withdrawn.

Wu, Chenxi. M. S. Investigations of common waterhemp cohort emergence and seed characteristics. Graduated Fall 2012.

Kiszonas, Alecia. M.S. Soybean development in response to planting time, population density and tillage. Co-Advised with Dr. Palle Pedersen. Graduate Spring 2010.

Beck, David. Distance M.S. In Progress. Response of common lambsquarters populations to glyphosate.

McGregor, Kevin. M.S. In progress. Assessment of 2,4-D and dicamba contamination in spray tanks.

Kohlhase, Daniel. M.S. In progress. Thesis to be determined.

Also, I have directed 12 independent study programs in weed science including 2 honors programs in spring 1986.

Five students under my direction have received **Research Excellence Awards** from the Iowa State University Graduate College.

### 13. Teaching Responsibilities:

PPSW 493B (1 cr) (40 hour workshop) Herbicide Weed Control Technology (S), 1985, 1986, and 1987.

Agron 547 (2 cr) Weed Ecology and Control Strategies (F) 1983, (S) 1987, (S) 1988, (S) 1989, (S) 1992, (S) 1993.

Guest lectures in: Agron 317 (Weed Management), Agron 340 (Chemical use in crop management), Agron 412 (Crop management), Agron 517 (Weed Ecology and Biology), Ag Ed and Studies 450 (Farm management and operation), and PL HP 391 (Clinical plant health).

PPSW 490 Special Problems

Agron 490 Special Problems

Ent. 283 (2 cr) Pesticide Applicator Certification (S) 2000, (S) 2001, (S) 2002, (S) 2003, (S) 2004, (S) 2005, (S) 2006 (S) 2007, (S) 2008 (S) 2009. Taught 3 lectures per semester.

Ent. 550 (2 cr) Pesticides in the Environment (F) 1990, (S) 1991, (S) 1992, (S) 1993, (S) 1994, (S) 1995, (S) 1996, (S) 1997, (S) 1998, (S) 1999, (S) 2001, (S) 2005, (S) 2006, (S) 2007, (S) 2008, (S) 2009. Taught 1 lecture per semester.

Agron. 600c (1 cr) Crop Production and Physiology Seminar (F, S) 1994

Agron. 519 (2 cr) Herbicide Physiology and Biochemistry (S) 1997, (S) 1999, (S) 2003, (S) 2006, (S) 2007, (S) 2008, (S) 2010. (S) 2012. This course was developed by Owen.

Agron 514. Integrated Pest Management. (2 cr) Principles and practices of weed science, entomology and plant pathology applied to crop production systems. Biology, ecology, and introductory principles of crop pest control. Restricted to students admitted to the distance education M.S. in Agronomy degree program.

Agron. 533 (2 cr) Crop Protection. Integrated management systems for important crop pests. Cultural, biological and chemical control strategies applicable to major crops grown in the Midwest. Restricted to students admitted to the distance education M.S. in Agronomy degree program.

**University of Costa Rica** - The Agronomy Department at Iowa State University was instrumental in helping the University of Costa Rica develop a Ph.D. curriculum in Sustainable Tropical Agriculture that is offered through the UCR Agronomy Department. Owen was requested to teach a unit in weed ecology and biology by the UCR curriculum committee. He taught the equivalent of a two credit graduate-level course on these topics during the fall semester for seven years. The program allows six to ten students to enroll annually. Owen was also requested to serve as co-adviser for two of the initial class of six students. There are also discussions underway to regionalize the program and offer it to all countries in Central America. Owen potentially may be teaching extensively in Central America if this plan is implemented.

**Escuela Agrícola Panamericana** - Owen is an Adjunct Professor at EAP and thus, has been involved in educational development and training opportunities for students at this accredited, four-year private agricultural university. EAP (Zamorano) is recognized and highly touted as providing the best agricultural education in Latin America. Dr. Owen has traveled to Honduras extensively during the last 16 years and has provided educational opportunities for several hundred undergraduate students throughout Central and South America. Owen has presented seminars on the evolution of herbicide resistant weed populations, the implications of genetically modified crops on weed management, and the implications of weed ecology and biology on sustainable crop production in Central America.

#### 14. Other published material:

##### **Refereed Publications (95 total published, 1 accepted or in press and 5 in progress 10/8/12)**

Hartzler, Robert G., Richard S. Fawcett, and Micheal D.K. Owen. 1989. Effects of Tillage on Trifluralin Residue Carryover Injury to Corn (*Zea Mays*), *Weed Sci.* 37:609-615.

Owen, Micheal D.K. 1992. Desarrollo de nuevos herbicidas y su aplicabilidad al MIP. *CEIBA.* 33:265-270.

Owen, Micheal D.K., Robert G. Hartzler, and James Lux. 1993. Woolly cupgrass (*Eriochloa villosa*) Control in Corn (*Zea mays*) with Chloracetamide Herbicides. *Weed Technol.* 7:925-929.

Browde, J.A., G.L. Tylka, L.P. Pedigo, and M.D.K. Owen. 1993. A Method for Infesting Small Field Plots with *Heterodera glycines*. *Agron. J.* 86:585-587.

Browde, J.A., L.P. Pedigo, M.D.K. Owen, and G.L. Tylka. 1993. Soybean Yield and Pest Management as Influenced by Nematodes, Herbicides, and Defoliating Insects. *Agron. J.* 86:601-608.

Hatterman-Valenti, Harlene, Vince F. Lawson, and Micheal D.K. Owen. 1994. Interaction of metribuzin and phorate on Atlantic and Norchip potato cultivars. *Weed Technol.* 8:461-464.

Levene, Brian C. and Micheal D.K. Owen. 1994. Movement of <sup>14</sup>C-Bentazon with Adjuvants into Common Cocklebur and Velvetleaf Leaves. *Weed Technol.* 8:93:98.

Hinz, John and Micheal D.K. Owen. 1994. Effect of Drought Stress on Velvetleaf (*Abutilon theophrasti*) and Bentazon Efficacy. *Weed Sci.* 42:76-81.



- Browde, J.A., G.L. Tylka, L.P. Pedigo, and M.D.K. Owen. 1994. Response of *Heterodera glycines* Populations to a Postemergence Herbicide Mix and Simulated Insect Defoliation. *J. Nematol.* 26:498-504.
- Browde, Joseph A., Larry P. Pedigo, Micheal D.K. Owen, Gregory L. Tylka, and Brian C. Levene. 1994. Growth of soybean stressed by nematodes, herbicides and simulated insect defoliation. *Agron. J.* 86:968-974.
- Hatterman-Valenti, Harlene, Nick Christians, and Micheal D.K. Owen. 1995. Effect of 2, 4-D and triclopyr on annual bedding plants. *J. Envir. Hort.* 13:122-125.
- Levene, Brian C. and Micheal D.K. Owen. 1995. Effect of Moisture Stress and Leaf Age on Bentazon Absorption in Common Cocklebur (*Xanthium strumarium*) and Velvetleaf (*Abutilon theophrasti*). *Weed Sci.* 43:7-12.
- Vega, Jamie, Micheal Owen, and Abelino Pitty. 1995. Organisms associated with johnsongrass (*Sorghum halepense* (L.) Pers.) in Honduras. *CEIBA.* 36:189-196.
- Bello, Iliya A., Micheal D.K. Owen, and Harlene Hatterman-Valenti. 1995. Effect of shade on velvetleaf (*Abutilon theophrasti*) growth, seed production, and dormancy. *Weed Technol.* 9:452-455.
- Delannay, X., T.T. Bauman, D.H. Beighley, M.J. Buettner, H.D. Coble, M.S. DeFelice, C.W. Derting, T.J. Diedrick, J.L. Griffin, E.S. Hagood, F.G. Hancock, S.E. Hart, B.J. LaVallee, M.M. Loux, W.E. Lueschen, K.W. Matson, C.K. Moots, E. Murdock, A.D. Nickell, M.D.K. Owen, E.H. Paschal II, L.M. Prochaska, P.J. Raymond, D.B. Reynolds, W.K. Rhodes, F.W. Roeth, P.L. Sprinkle, L.J. Tarochione, C.N. Tinius, R.H. Walker, L.M. Wax, H.D. Weigelt and S.R. Padgett. 1995. Yield evaluation of a glyphosate-tolerant soybean line after treatment with glyphosate. *Crop Sci.* 35:1461-1467.
- Hatterman-Valenti, Harlene, Micheal D.K. Owen, and Nick E. Christians. 1995. Comparison of spray drift during postemergence herbicide application to turfgrass. *Weed Technol.* 9:321-325.
- Hatterman-Valenti, Harlene, Iliya A. Bello, and Micheal D.K. Owen. 1996. Physiological basis of seed dormancy in woolly cupgrass (*Eriochloa villosa* [Thunb.] Kunth.). *Weed Sci.* 44:87-90.
- Hatterman-Valenti, Harlene, Micheal D.K. Owen, and Nick E. Christians. 1996. Ground ivy (*Glechoma hederacea* L.) Control in a Kentucky bluegrass turfgrass with borax. *J. Environ. Hort.* 14:101-104.
- Hinz, John R.R., and Micheal D.K. Owen. 1996. Nicosulfuron and primisulfuron selectivity in corn (*Zea mays*) and two annual grass weeds. *Weed Sci.* 44:219-223.

- Buhler, Douglas D. and Micheal D.K. Owen. 1997. Emergence and survival of horseweed (*Conyza canadensis*). *Weed Sci.* 45:98-101.
- Hinz, John R.R., Micheal D.K. Owen, and Michael Barrett. 1997. Nicosulfuron, primisulfuron, and bentazon hydroxylation by corn (*Zea mays*), woolly cupgrass (*Eriochloa villosa*), and shattercane (*Sorghum bicolor*) cytochrome P-450. *Weed Sci.* 45:474-480.
- Hinz, John R.R. and Micheal D.K. Owen. 1997. Acetolactate synthase resistance in a common waterhemp (*Amaranthus rudis*) population. *Weed Technol.* 11:13-18.
- Tapia, Larry S., Thomas T. Bauman, Robert G. Harvey, James J. Kells, George Kapusta, Mark M. Loux, William E. Lueschen, Micheal D.K. Owen, Larry H. Hegemon, and Steve D. Strachan. 1997. Postemergence herbicide application timing effects on annual grass control and corn (*Zea mays*) yield. *Weed Sci.* 45:138-143.
- Zelaya, Ian A., Micheal D.K. Owen, and Abelino Pitty. 1997. Effect of tillage and environment on weed population dynamics in the dry tropics. *CEIBA.* 38(2):123-135.
- Zelaya, Ian A., Micheal D.K. Owen, and Abelino Pitty. 1997. Germination characteristics of eight weed species from the dry tropics. *CEIBA.* 38(2):137-149.
- Levene, Brian C., Micheal D.K. Owen, and Gregory L. Tylka. 1998. Response of soybean cyst nematodes and soybeans (*Glycine max*) to herbicides. *Weed Sci.* 46:264-270.
- Bello, Iliya A., Harlene Hatterman-Valenti, and Micheal D.K. Owen. 1998. Effects of stratification, temperature, and oxygen on woolly cupgrass (*Eriochloa villosa*) seed dormancy. *Weed Sci.* 46:526-529.
- Levene, Brian C., Micheal D.K. Owen, and Gregory L. Tylka. 1998. Influence of herbicide application to soybeans on soybean cyst nematode egg hatching. *J. Nematol.* 30(3):1-6.
- Hoffman, Melinda L., Micheal D.K. Owen, and Douglas D. Buhler. 1998. Effects of crop and weed management on density and vertical distribution of weed seeds in soil. *Agron. J.* 90:793-799.
- Felix, Joel and Micheal D.K. Owen. 1999. Weed population dynamics in land removed from the conservation reserve program. *Weed Sci.* 47:511-517.
- Hoffman, Melinda, Douglas D. Buhler, and Micheal D.K. Owen. 1999. Weed population and crop yield response to recommendations from a weed control decision aid. *Agron. J.* 91:386-392.
- Hoffman, M.L., D.D. Buhler, and M.D.K. Owen. 1999. Multi-year evaluation of model-based weed control under variable crop and tillage conditions. *J. Crop Prod.* 2:207-224.

- Lee, James M. and Micheal D.K. Owen. 2000. Comparison of acetolactate synthase enzyme inhibition among resistant and susceptible *Xanthium strumarium* biotypes. *Weed Sci.* 48:286-290.
- White, A.D., M.D.K. Owen, R.G. Hartzler, and J. Cardina. 2000. Common sunflower (*Helianthus annuus* L.) resistance to acetolactate synthase inhibiting herbicides. *Resistant Pest Management* 11:3-5.
- Buckelew, L.D., L.P. Pedigo, H.M. Mero, M.D.K. Owen, and G.L. Tylka. 2000. Effects of weed management systems on canopy insects in herbicide-resistant soybeans. *J. Econ. Ent.* 93:5 1437-1443.
- Hall, J. Christopher, Laura L. Van Eerd, Stephen D. Miller, Micheal D.K. Owen, Timothy S. Prather, Dale L. Shaner, Megh Singh, Kevin C. Vaughn, and Stephen C. Weller. 2000. Future research directions for weed science. *Weed Technol.* 14:647-658.
- Owen, M.D.K. 2000. Current use of transgenic herbicide-resistant corn and soybean in the USA. *Crop Prot.* 19:765-771.
- Bello, I.A., H. Hatterman-Valenti, and M.D.K. Owen. 2000. Factors affecting germination and seed fecundity of woolly cupgrass *Eriochloa villosa*. *Weed Sci.* 48:749-754.
- Wiebe, A., A.B. Cortillet, J.J. Obrycki and M.D.K. Owen. 2001. Releases of natural enemies of purple loosestrife *Lythrum salicaria* L., in Iowa wetlands. *J. Kansas En. Soc.* 74(2):106-109.
- Felix, Joel and Micheal D.K. Owen. 2001. Weed seedbank dynamics in post conservation reserve program land. *Weed Sci.* 49:780-787.
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- White, Anthony D., Carol A. Heaverlo, and Micheal D.K. Owen. 2002. Evaluation of methods to quantify herbicide penetration in leaves. *Weed Technol.* 16:37-42.
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- Liu, Ming-Chung and Micheal D.K. Owen. 2003. Effect of seed reserve utilization on woolly cupgrass (*Eriochloa villosa*) development. *Weed Sci.* 51:78-82.

- Lee, James M. and Micheal D.K. Owen. 2003. Dry matter yield differences of five common cocklebur (*Xanthium strumarium*) biotypes grown at a common site. *Weed Sci.* 51:186-190.
- Leon, Ramon G., and Micheal D.K. Owen. 2003. Regulation of weed seed dormancy through light and temperature interactions. *Weed Sci.* 51:752-758.
- White, Anthony D., Michelle A. Graham, and Micheal D.K. Owen. 2003. Isolation of acetolactate synthase homologs in common sunflower. *Weed Sci.* 51:845-853.
- Gower, Steven A., Mark M. Loux, John Cardina, S. Kent Harrison, Paul L. Sprankle, Norman J. Probst, Thomas T. Bauman, Wayne Buggs, W. S. Curran, Randall S. Currie, R. Gordon Harvey, William G. Johnson, James J. Kells, Micheal D.K. Owen, David L. Regehr, Charles H. Slack, Marvin Spaur, Christy L. Sprague, Mark VanGessel, and Bryan G. Young. 2003. Effect of postemergence glyphosate application timing on weed control and grain yield in glyphosate-resistant corn: results of a 2-yr multistate study. *Weed Technol.* 17:821-828.
- Young, Bryan G., Julie M. Young, Joseph L. Matthews, Micheal D.K. Owen, Ian A. Zelaya, Robert G. Hartzler, Loyd M. Wax, Kent W. Rorem, and German A. Bollero. 2003. Soybean development and yield as affected by three postemergence herbicides. *Agron. J.* 95:1152-1156.
- Leon, Ramon G., Allen D. Knapp, and Micheal D.K. Owen. 2004. Effect of temperature on the germination of common waterhemp (*Amaranthus tuberculatus*), giant foxtail (*Setaria faberi*) and velvetleaf (*Abutilon theophrasti*). *Weed Sci.* 52:67-73.
- Zelaya, Ian and Micheal D.K. Owen. 2004. Evolved resistance to ALS-inhibiting herbicides in common sunflower (*Helianthus annuus* L.), giant ragweed (*Ambrosia trifida* L.), and shattercane (*Sorghum bicolor* L.) in Iowa. *Weed Sci.* 52:538-548.
- Leon, Ramon G. and Micheal D.K. Owen. 2004. Artificial and natural seed banks differ in seedling emergence patterns. *Weed Sci.* 52:531-537.
- Harbur, Matthew M. and Micheal D.K. Owen. 2004. Light and growth rate effects on crop and weed responses to nitrogen. *Weed Sci.* 52:578-583.
- Tharp, Brent E., James J. Kells, Thomas T. Bauman, R. Gordon Harvey, William G. Johnson, Mark M. Loux, Alex R. Martin, Douglas J. Maxwell, Micheal D.K. Owen, David L. Regehr, Jon E. Warnke, Robert G. Wilson, Leon J. Wrage, Bryan G. Young, and Caleb D. Dalley. 2004. Assessment of weed control strategies for corn in the North-Central United States. *Weed Technol.* 18:203-210.

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- Leon, R.G., M.D.K. Owen, D. Soh, and G. Tylka. 2004. Absence of interactive responses of early soybean (*Glycine max*) growth to soybean cyst nematode (*Heterodera glycines*), postemergence herbicides and soil pH and texture. *Weed Technol.* 19:847-854.
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- Zelaya, I.A. and M.D.K. Owen. 2005. Differential response of *Amaranthus tuberculatus* (Moq ex DC) JD Sauer to glyphosate. *Pest Manag. Sci.* 61(10):936-950.
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- Harbur, M.M. and M.D.K. Owen. 2006. Influence of relative time of emergence on nitrogen responses of corn and velvetleaf. *Weed Science*: 54:917-922.
- Leon, R.G., D. Bassham, and M.D.K. Owen. 2006. Inheritance of deep seed dormancy and stratification-mediated dormancy alleviation in *Amaranthus tuberculatus*. *Seed Sci. Res* 16:193-202.
- Leon, R.G. and M.D.K. Owen. 2006. Tillage systems and seed dormancy effects on common waterhemp (*Amaranthus tuberculatus*) seedling emergence. *Weed Sci.* 54:1037-1044.
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