

Curriculum Vitae

KAI UMEDA

University of Arizona
Cooperative Extension
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Professional Experience

University of Arizona Cooperative Extension, Area Extension Agent, Turfgrass Science and Vegetable Crops, Phoenix, Maricopa County.

- Identified priority plant health problems and conducted field-based applied research and transferred educational outreach program for professional turfgrass managers since 2003.
- Conducted similar research/extension programming for pest management and weed control for vegetable crops for 10 years.
- Sabbatical leaves provided experiences to conduct tropical vegetation in Hawaii and weed management and invasive species management.

American Cyanamid Company, Research Biologist, Princeton N.J. and Field Research Agriculturist, Arizona/Southern California for 12 years.

- Conducted early stage herbicide discovery screening from test tube to greenhouse to field.
- Conducted field research and development in all major agronomic crops for all plant health and protection products.
- Developed and initiated new rice herbicide screening procedures.
- Contributed to registrations of herbicides, insecticides, fungicides, and plant growth regulators for vegetable and field crops.

Additional Work and Education Experience

- Rice production short course, International Rice Research Institute, Philippines
- Greenhouse cut-flower production, packing, and shipping, California
- Vegetable weed control intern, University of California Cooperative Extension
- Apple integrated pest management intern, University of California Cooperative Extension
- China agricultural tour, People to People Ambassador Program
- Australia agricultural tour, North Carolina State University
- Mexico agricultural tour, Arizona Agricultural Extension Association

Education

M.S. Southern Illinois University, Carbondale, IL. Plant and Soil Science with specialization in weed science.

B.S. University of California, Berkeley, CA. Pest Management.

A.A. Cabrillo College, Aptos, CA. Biology.

Professional Affiliations

Current memberships:

Weed Science Society of America
Western Society of Weed Science - President, 2012-13; recipient of Presidential Award of Merit, 2011
Entomology Society of America
Arizona and National County Agents' Association - recipient of Achievement Award, 2001; Distinguished Service Award, 2010
International Weed Science Society
Golf Course Superintendents' Association of America
Cactus and Pine Golf Course Superintendent's Association
Council for Agricultural Science and Technology
American Society of Agronomy/Crop Science Society of America

Prior participation in:

American Society for Horticultural Science
Aquatic Plant Management Society
Asian Pacific Weed Science Society
California Agricultural Production Consultants Association
California Weed Science Society
North American Farmers' Direct Marketing Association
North Central Weed Science Society
Southern Weed Science Society

Selected Publications and Key Outreach Programs/Activities

Carl T. Redmond, Kai Umeda and Daniel A. Potter. (2012) Masked chafers. Handbook of Turfgrass Insects, 2nd edition. R. L. Brandenburg and C.P. Freeman, editors. Entomological Society of America.

Kai Umeda. (2012) Pest Management Strategic Plan for Turfgrass in the Low Desert Regions of Arizona, Southern California, and Southern Nevada-Southern Utah. Alfred Fournier, editor. Integrated Pest Management Center, USDA, CSREES.

Dale L. Shaner and Kai Umeda. (2011). How rapidly do fall-applied prodiamine and dithiopyr disperse in established bermudagrass turf in Southwest United States? Online. Applied Turfgrass Science: February 2-11, Vol. 8, No.1, doi:10.1094/ATS-2011-0207-01-RS

S. Mitra, P.C. Bhowmik, and K. Umeda. (2007) Weed management practices using ALS-inhibiting herbicides for successful overseeding and spring transition. Handbook of Turfgrass Management. M. Pessaraki, editor. CRC Press.

C.C. Chu, K. Umeda, T.Y. Chen, A.M. Simmons, T.J. Henneberry. (2004) Insect trap catch improvement with light-emitting diode modification. HortScience: vol 39(4), pp 871-872.

Steven A. Fennimore and Kai Umeda. (2003) Weed Control in Glyphosate-Tolerant Lettuce (*Lactuca sativa*)¹. Weed Technology: October 2003, Vol. 17, No. 4, pp. 738-746.

C.C. Chu, P. Pinter, T.J. Henneberry, K. Umeda, T.T. Natwick, Y.A. Wei, V.R. Reddy, M. Shrepatis. (2000) Use of CC traps with different trap base colors for silverleaf whiteflies, thrips, and leafhoppers. *Journal of Economic Entomology*: 93(4):1329-1337.

Carl E. Bell, Steven A. Fennimore, Milton E. McGiffen Jr, W. Thomas Lanini, David W. Monks, John B. Masiunas, A. Richard Bonanno, Bernard H. Zandstra, Kai Umeda, William M. Stall, Robin R. Bellinder, Ray D. William, and Robert B. McReynolds. (2000) My view. *Weed Science*: January 2000, Vol. 48, No. 1, pp. 1-1.

Produced an integrated pest management template for golf course superintendents to develop written IPM plans for golf courses. 2006. Golf Course Superintendents Association of America funded (\$40k) 2-year project with D. Kopec (UA), F. Yelverton, R. Brandenburg (NCSU), and W. Gelernter, L. Stowell (PACE Turf Research Institute).

Published and co-authored over 40 abstracts and conference proceedings for presentations and poster displays from 1979 to present at regional, national, and international weed science and entomology society meetings. Published over 100 research reports in College of Agriculture and Life Sciences annual commodity reports or other professional society reports summarizing results of weed control, pest management, and vegetable crops or turf management.

Actively conducted and participated in collaborative research for vegetable crops and turfgrass projects with researchers in UA Departments of Soil, Water, and Environmental Sciences, Entomology, School of Plant Sciences, USDA Arid Land Agricultural Research Center, United States Golf Association, and crop protection product manufacturer representatives. Leads and guides statewide extension programming for turfgrass as the Lead Faculty and Program Coordinator.

Organized, conducted, and presented field days, workshops, seminars, conferences, and other educational experiences for turf managers, golf course superintendents, crop producers and consultants, and allied agribusinesses. Annually organize Desert Turf School, Spring Turfgrass or Vegetable Crops seminars, and Maricopa County Short Course. Organized farm food safety, direct marketing conferences in Phoenix, National Invasive Weeds Awareness Week in Washington, D.C., Invasive Plants in Natural and Managed Lands in Florida, Western Society of Weed Science Annual meeting.

Maintain internet website for University of Arizona Turfgrass Research, Extension, and Education as premier source for desert turfgrass information. (<http://turf.arizona.edu>)

Collaborate in the Community IPM program for school facilities by organizing, implementing, and delivering turf management education under the UA Extension IPM program. Deliver a collaborative and more efficient Pesticide Safety Education program for pesticide applicator licensing in Arizona since 2009. Previously liaison to AZ Invasive Species Advisory Council appointed by governor and developed statewide invasive species management plan.