

Catherine Camille Lavis, PhD
Professor and Extension Specialist: Landscape Management

Department of Horticulture and National Resources
Kansas State University
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Professional History

- **Professor:** 2018. Kansas State University: Appointment: 80% Teaching and Undergraduate Advising, 20% Extension: Landscape Management
 - Courses Taught (co-teach*): HORT 190: Pre-internship*; HORT 508: Sustainable Landscape Maintenance; HORT 550: Landscape Irrigation Systems; HORT 551: The Business of Landscape Contracting*; HORT 585: Arboriculture.
- **Associate Professor:** 2011-2018. Kansas State University: Appointment: 80% Teaching and Undergraduate Advising, 20% Extension: Landscape Management
 - Courses Taught (co-teach*): HORT 190: Pre-internship*; HORT 405: Water Issues in the Lawn and Landscape (*online); HORT 508: Sustainable Landscape Maintenance; HORT 550: Landscape Irrigation Systems; HORT 551: The Business of Landscape Contracting*; HORT 585: Arboriculture.
- **Assistant Professor:** 2006-2011. Kansas State University: Appointment: 100% Teaching and Undergraduate Advising.
 - Courses Taught (co-teach*): HORT 190: Pre-internship*; *Helped develop* the online course, HORT 405: Water Issues in the Lawn and Landscape*; HORT 508: Sustainable Landscape Maintenance; HORT 550: Landscape Irrigation Systems; HORT 551: The Business of Landscape Contracting*, *developed* the first HORT 555: Landscape Irrigation Design; HORT 585: Arboriculture.
- **Instructor:** 1997-05. Kansas State University. Appointment: 100% Teaching and Undergraduate Advising.
 - Courses Taught and Developed: HORT 508: Landscape Maintenance *developed* a lab for this course; *developed the first irrigation course taught in the department*— HORT 550: Landscape Irrigation Systems; HORT 585: Arboriculture.
- **Assistant Instructor:** 1993-97. Kansas State University: Appointment: 100% Laboratory Instructor and Undergraduate Advising.
 - Labs Taught: HORT 201: Introduction to Horticultural Science; HORT 350: Plant Propagation; HORT 374 and HORT 375: Woody Plant Materials I & II; HORT 376: Herbaceous Plant Materials.
- **Graduate Research and Teaching Assistant:** 1990-1993. Kansas State University:
 - Labs Taught: HORT 201: Introduction to Horticultural Science, HORT 350: Plant Propagation; HORT 374 and HORT 375: Woody Plant Materials I & II; HORT 376: Herbaceous Plant Materials.

Education

- **Ph.D.** 2005. Kansas State University, Manhattan, KS.
Major: Agronomy. Advisor: Dr. Stephen Thien
Dissertation: *Evaluating Intellectual Development of Horticultural Students.*
- **M.S.** 1993. Kansas State University, Manhattan, KS.
Major: Ornamental Horticulture. Advisor: Dr. Mary Lewnes Albrecht
Thesis: *The Influence of Temperature and Container Size on the Growth of Four Ornamental Grasses.*
- **B.S.** 1986. Oklahoma State University, Stillwater, OK.

Major: Agronomy, Option: Soil and Crop Science.

Awards and Honors

- The Commerce Bank and W. T. Kemper Foundation Outstanding University Teaching Award: 2017
- Ag and Extension Faculty to be Professor of the Week by KSU Faculty Senate: Fall 2016
- College of Agriculture Faculty of the Semester: Spring 2016
- Extension: Alpha Rho Chapter: Epsilon Sigma Phi Horizon Award: 2015
- K- State Presidential Award for Excellence in Undergraduate Advising: 2014
- National Award: Alex L. Shigo Award for Excellence in Arboricultural Education awarded by the International Society of Arboriculture: 2014
- National Award: American Horticultural Society Great American Gardener Award for Teaching: 2013
- National Award: Irrigation Foundation Outstanding Educator Award: 2013
- Outstanding Advisor Award: K-State, Gamma Sigma Delta Eta Chapter: 2008-2009
- Outstanding Advisor of the Year: K-State College of Agriculture: 2007-2008
- Faculty of the Semester: Kansas State University College of Agriculture: Spring 2008
- Tilford Multicultural Fellow: Kansas State University's Tilford Group: 2007-2008
- Outstanding Teaching Award: Kansas State University, Gamma Sigma Delta: 2005-2006
- Faculty Scholarship: Western Nursery & Landscape Assoc. Management Clinic: 2005
- Wakonse Teaching Fellow Award: Kansas State University: 2006
- Coffman Leadership Institute Selected Participate: 2006
- Teaching Award of Merit: Kansas State University Blue Key Honor Society: 2002

Professional Memberships, Academic Affiliations, and Honor Societies

- Alpha Rho Chapter of Epsilon Sigma Phi: 2012
- American Society for Horticultural Science (ASHS): 2000
- Kansas Arborist Association: 1997
- National Association of Landscape Professionals (NALP): 2000
- Professional Ground Management Society (PGMS): 2005
- The American Society of Horticulture (AHS): 2003
- The International Society of Arboriculture (ISA): 1997
- The Irrigation Association (IA): 1998
- The Kansas Nursery and Landscape Association (KNLA): 1998
- The Midwestern Arborist Association (MWAA): 2005
- The North American Colleges and Teachers of Agriculture (NACTA): 2004
- The Western Nursery and Landscape Association (WNLA): 2000
- Gamma Sigma Delta Chapter Honor Society of Agriculture: 1992
- Pi Alpha Xi Omega Chapter: 1991
- Sigma Xi Scientific Research Society: 1993

Professional Industry Affiliations

National:

Chair:

- Irrigation Foundation: 2015

Committee/Board Member:

- Irrigation Association: National Awards Committee: 2018-2020
- American Society for Horticultural Science (ASHS) Education Publication Awards: 2017-2020
- American Society for Horticultural Science (ASHS) Education Publication Awards: 2013-2016

- American Society for Horticultural Science (ASHS) Scholarship Awards: 2011-2014
- American Society for Horticultural Science (ASHS) Outstanding Undergraduate Educator Awards: 2009-2011
- American Society of Irrigation Consultants (ASIC): Excellence in Irrigation Award Competition Judge: 2014-current
- Irrigation Association (IA): Developing Water Auditing Surveys: 2009
- Irrigation Foundation (IF): Board Member: 2007-2016
 - Irrigation Foundation Scholarship Awards: 2017-present
 - Irrigation Foundation Careers in Irrigation Taskforce: 2010-2014
- Leadership in Energy & Environmental Design (LEED) Water Efficiency Technical Advisory Group (WE TAG): 2013-2016
- Mid-America Green Industry Council (MAGIC) Landscape Industry Certified Irrigation Judge: 2012-2016
- National Association of Landscape Professionals (NALP) Education Trailblazer: 2008- present
- The American Society of Agricultural and Biological Engineers (ASABG) Standards Committee, Landscape Plant Water Use: 2010-2017
- The International Society of Arboriculture (ISA): Editorial Board for Arborists News: 2011-present
- The International Society of Arboriculture (ISA) National Arboricultural Collegiate Innovations: 2012-2014
- The International Society of Arboriculture (ISA) Membership: 1997-2018.
- Midwestern ISA Judge for the Tree Climbing Championship, 2005, 2006, 2009

State Contributions:

- The Kansas Arborist Association (KAA): Scholarship Coordinator: 2000-present
- The Kansas Arborist Association (KAA): Board Member: 2004-2007
 - Co-chair: 50th Anniversary Shade Tree Conference: 2007

Selected Service and Professional Development Activities [Kansas State University only]

University:

Chair:

- Faculty Exchange for Teaching Excellence (FETE): 2014-2017
- Tree Campus USA Advisory Board: 2012-present
 - Coordinator: Ash Tree Inventory for Emerald Ash Borer: Summer 2017
 - Emerald Ash Borer Strategic Plan: Coordinator— 2018
- Campus Landscape Advisory Committee: 2005-present
- Co-Chair: Faculty Exchange for Teaching Excellence (FETE). 2012-14: (2-yr. term)

Committee Member:

- University Coffman Nomination Review Board: 2018
- K-State: AP Design McElwee Faculty Teaching Award—evaluated nomination packages: 2017& 2018
- K-State Faculty Senate: 2013-present
- Campus Planning and Development Advisory: 2006-present
- Search Committee: VP for Administration and Finance: 2013
- K-State Faculty Senate Professional Staff Affairs: 2013-2015
- “Understanding of Learning & the Brain,” collaborative endeavor university program funded by Provost Mason, “The Year of the Brain.” 2013-14
- Campus Recycling: 2013-present
- Faculty Exchange for Teaching Excellence Board (FETE): 2009-2012
- K-State Women’s Studies Advisory Board: 2010-2014
- K-State-Honor Council: 2006-2008

College of Agriculture:

Chair:

- Gamma Sigma Delta Eta Graduate Student Awards. 2006-2014

Committee Member:

- NACTA Horticulture Judging: April 2017
- Academic Standards: January 2010-present
- Undergraduate Recruitment: 2009-present
- Undergraduate Scholarship: 2008-present
- College of Agriculture/K-State Research & Extension Facilities & Infrastructure for K-State 2025 Strategic Planning: 2012
- 5-year Administrative Review: Associate Dean Academic Programs: May-June, 2010
- Search Committee: Assistant Dean: Feb-April, 2010
- Search Committee: Associate Dean of Academic Programs: 2008

Other Significant Contributions:

- Participate with CoA Student Ambassador Interviews: 2012, 2014, 2015
- Interdepartmental collaboration Study Abroad, Dr. John Unruh (Animal Science), Dr. Melvin Hunt (Meat Science): Tuscany Italy, March 11-21, 2010
- Interdepartmental collaboration Study Abroad, Dr. John Unruh: Costa Rica [5 Hort students], May 2009

Department:

Chair:

- Search Committee Instructor for the Park Management and Conservation Program: Fall, 2018.
- Departmental Rep: Gamma Sigma Delta Eta Chapter Society: 2006-2014
- Undergraduate Scholarships: 2004-present. *2018 Totals: \$40,875.00 University & Non-University National Scholarships: \$91,600.00*
- Recruitment Task Force: 2015-2018
- Throckmorton Lobby updates, summer 2015

Committee Member:

- Undergraduate Course and Curriculum: current
- Woody Ornamentals Research/Teaching Position Search Committee: 2008.

Other Significant Contributions:

- Coordinated the renewal of Throckmorton Hall West Landscape: April 2018
- Assist Horticulture Club with K-State Open House: 2001 to present
- Assisted and guided the horticulture club in building the Throckmorton outdoor patio: 2014-15 season. Secured \$10,000 funding from KSU Admin. Finance-Cindy Bontrager and alumni: \$5000.
- Update departmental information signage for Undergraduate Scholarships
- Study Abroad, Belgian, Netherlands and Northern France [22 students]: May, 2019
- Study Abroad, Italy— [12 students]: May 2017
- Study Abroad, Belgian, Netherlands and Northern France [12 students]: May 2016
- Study Abroad, Western Europe [15 students]: May 2014
- Study Abroad, Australia, [7 students]: January 2013
- ***Co-Hosted PLANET National Student Competition and Career Days, March 21-26, 2012 hosting 800+ students, 63 colleges, and several hundred industry leaders***
- Supervise horticulture club with the Throckmorton landscape maintenance projects: 2012-present
- Study Abroad, England and Wales, [7 students]: May 2011
- *Volunteered* to teach HORT 350: Plant Propagation: Spring 2010.
- Assisted with updates to the HFRR departmental display case in main lobby: Aug, 2010
- Study Abroad Tuscany Italy. [7 students]: March 11-21, 2010
- Advisor/recruiter invited guest, Coach Bill Snyder breakfast, Jan, 2010.
- Coordinate the Horticultural Undergraduates Annual Awards and Recognition Ceremony.
- Attend the KSU- CoA Annual Scholarship Breakfast Banquet: May.
- Write weekly student newsletter, the Week in Preview (TWIP) this is sent out to students every Monday

morning during Spring and Fall semesters, since 2002.

- Visit with prospective students as schedule allows.
- Line-up horticultural graduates **every** May and December, 2002-present.
- Hosted Dr. Noel Schultz, Faculty Women of Throckmorton Lunch: Oct, 2010
- Lead organizer for the Horticultural Club PLANET Evening Event hosting Kansas horticultural industry leaders to raise awareness of our students, our program, and the PLANET competition event: Dec 2008
- Advisor: Kansas State Horticulture Club. 2001-present
- Advisor and co-coach: Landscape Contracting Team: 2001-present

Courses Developed

- GenAG 505: The Culture and Horticulture of the Netherlands, Belgium and Northern France: Spring 2019-co instructor.
- HORT 390: Italy and Horticulture: May 2017—lead instructor
- HORT 390: Central American Horticulture: May 2016—trip cancelled due to *Zika* virus
- GenAG 505: The Culture and Horticulture of the Netherlands, Belgium and Northern France: Spring 2014-co instructor.
- Gen Ag 505: Horticulture Down Under: Australia: Fall, 2012
- GenAG 505: Horticulture Topics: The Gardens of England and Wales: Spring, 2011
- GenAG 505: Horticulture Topics: Tour of Tuscany: Spring, 2010
- HORT 405 and 640: Issues in the Lawn and Landscape: Spring, 2010 (Peer developed on-line course.)
- HORT 555: The Fundamentals of Landscape Irrigation Design: Spring, 2007
- HORT 508: Landscape Maintenance Laboratory: Spring, 2000
- HORT 550: Landscape Irrigation Systems: Fall, 1999

Evidence of Scholarship: Refereed Publications

[*denotes presenter of research at National Conference]

- Cabon, J., D. Bremer, Fry, J., and **Lavis C.** 2016. Effects of soil moisture-based irrigation controllers, mowing height, and trinexapac-ethyl on tall fescue irrigation amounts and mowing requirements. *Int. Turfgrass Soc. Res. J.* 13:1-6 doi: 10.2134/itsrj2016.04.0242
- **Lavis, C. C.**, K. A. Williams, J. Fallin, P. K. Barnes, S. J. Fishback, S. Thien. 2016. Assessing a faculty development program for the adoption of brain-based learning strategies. *J. Faculty Development.* 30(1): 57-69.
- Carmichael, T. R., Boyer, C. R., Griffin, J. J., Warren S. L., and **Lavis C. C.** 2014. Production and landscape establishment of nursery crops in eastern redcedar-amended substrates. *J. Environ. Hort.* 32:77-83.
- Domenghini, J., D. Bremer, S. Keely, J. Fry, **C. Lavis** and S. Thien. 2014. Assessing student learning with surveys and a pre/post-test in a new online landscape water issues course. *Nat. Sci. Educ.* 43:109. Doi:10.4195/nse2014.03.0008
- Bremer, D. J., S. J. Keeley, A. Jager, J. D. Fry, and C. C. Lavis. 2012. In-ground irrigation systems affect lawn-watering behaviors of residential homeowners. *HortTechnology Journal* 22(5):461-465.
- Domenghini, J.C., D. Bremer, K. Peterson, J. Fry, S. Keeley, **C. Lavis**, and R. St. John. 2010. New online course examines critical water issues related to irrigation in urban watersheds. *HortScience* 45(8): S247-S248.
- Lavis, C. C. and L. A. Brannon. 2010. Installation of a Residential Irrigation System as a Component of a Landscape Irrigation Undergraduate Course. *HortTechnology Journal* 20(2):467-474.
- **Lavis, C.C.**, K.A. Williams and S.J. Thien. 2008. Assessing Intellectual Development of Horticulture Undergraduates Using the Perry Scheme and Learning Environment Preferences Instrument. *NACTA Journal* 52(4): 25-31.

- K. Peterson, * D. Bremer, J. Domenghini, J. Fry, S. Keeley C. Lavis, R. St. John, and L. Moley. 2010. Conserving Water and Improving Water Quality in Urban Watersheds: Survey of Kansas Residential Homeowners about Lawn Irrigation.
- Shoemaker, C.* and C. Lavis. 2008. Student Learning Assessment: Useful or Odious? HortScience, Abstract. 43(4):1167.

Abstracts and Scientific Reports in Non-Refereed Publications or Presentations

[*denotes presenter of research at National Conference]

- Poster: Joshua Chabon, Dale J. Bremer*, Jack D. Fry and Catherine Lavis. 2017. Effects of soil moisture-based irrigation controllers, mowing height, and trinexapac-ethyl on tall fescue irrigation amounts and mowing requirements. International Turfgrass Society, New Brunswick, NJ.
- *Roundtable led discussion*—Ackerman, P. E. and C. Lavis*. 2017. Examining Pieces of the Critical Thinking Puzzle: Raising faculty awareness. 37th Annual International Conference on Critical Thinking. Sonoma, CA.
- Keeley, S.*, G. Davis, C. Lavis, J. Fry, K.A. Williams, and C. Miller. 2014. Creating a culture of professionalism in an undergraduate horticulture program. NACTA J. 58 (Supp. 1):72
- Carmichael, T.R., C.R. Boyer, S.L. Warren, C.C. Lavis, and J.J. Griffin. 2013. Cyclic irrigation does not overcome low water holding capacity of *Juniperus virginiana* based substrates for greenhouse production of *Rudbeckia*. *Abstr.* HortScience S50-S51.
- *Poster*- Chabon, J. A., Bremer, D. Fry, J. and Lavis, C. 2013. Irrigation Management and Fertilization Effect on Nitrate Leaching
- Domenghini, J.C., * D. Bremer, K. Peterson, J. Fry, S. Keeley, C. Lavis, and R. St. John. 2010. New Online Course Examines Critical Water Issues Related to Irrigation in Urban Watersheds. ASHA 2010 Annual Conference.
- Domenghini, J.C., D. Bremer, J. Fry, S. Keeley, and C. Lavis. 2010. New online course examines critical water issues related to irrigation in urban watersheds. Water and the Future of Kansas Conference, Topeka, KS, October 26.
- Peterson, K., D. Bremer, J. Domenghini, J. Fry, S. Keeley, C. Lavis, R. St. John, and L. Moley. 2010. Conserving Water and Improving Water Quality in Urban Watersheds: Survey of Kansas Residential Homeowners about Lawn Irrigation. 2010 Kansas National Resource Conference, Wichita, KS, February 4.
- Peterson, K., D. Bremer, J. Domenghini, J. Fry, S. Keeley, C. Lavis, R. St. John, and L. Moley. Conserving water and improving water quality in urban watersheds: Survey of residential homeowners in Wichita, Olathe, and Salina about lawn irrigation. 2010 USDA-NIFA Land Grant and Sea Grant National Water Quality Conference, Hilton Head Island, SC, February 23.
- Williams, K.A*. C. Lavis, G. Davis, and C. Shoemaker. 2009. Assessing student perceptions about their multicultural competencies at the beginning and end of a degree program. NACTA Journal. Abstr. Presented as oral presentation, 2009 NACTA/SERD Annual Conference, June 17, 2009.
- **Lavis, C.C.*** and L.A. Brannon. 2009. Installation of a Residential Irrigation System: A Significant Learning Experience in Landscape Irrigation Undergraduate Course. NACTA/SERD Annual Conference; Oklahoma State University. Abstract # 355.

Professional/Trade Journal Articles

- Lavis, C. C. 2012. For the Love of Teaching Trees. *Arborist News*. 21(6): 61-52.

Extension Contributions

Factsheets:

- Tool maintenance and sharpening. 2017. Lavis, C.C. and McKernan, M.

- Selecting quality landscape tools. 2017. Lavis, C. C.
- How to plant a B&B tree and how to plant a containerized tree. 2016. Lavis, C. C.
- Ornamental tree evaluation. 2016. Lavis, C., J. Griffin, T. McDonnell, I. Katzer, & R. James.
- Drip irrigation for community gardens. 2014. Rivard, C., Lavis, C., Boyer, C., and Upham, W.
- How to hire a reputable landscape irrigation contractor? 2013. Lavis, C. C.

Kansas Healthy Yards: "Video of the Week."

- Watering in the Zone
- Rain Sensors Save Money and Water
- What are Backflow Devices?

Funded Grants and Industry Donations

- Foundation for Food and Agriculture Research (FFAR) to launch the Irrigation Innovation Consortium Five-Year Grant: 2018. \$62,750.00
- Educating the Campus Community about Emerald Ash Borer (EAB) and the Potential Impact on Our Approximately 250 Ash Trees: Spring 2018 Green Action Sustainability Fund K-State SGA. \$1750.
- Irrigation Foundation Faculty Academy 2017 Travel Grant: \$600. Orlando.
- *Industry Donations* that funded our 2017 NCLC Landscape Contracting Team to Brigham Young University, Provo: \$16,500.
- Educating the Campus Community about Tree Care and the Eminent Arrival of Emerald Ash Borer: Spring 2017 Green Action Sustainability Fund K-State SGA: \$1850.
- Irrigation Foundation Faculty Academy 2016 Travel Grant: \$774. San Diego.
- *Stihl Incorporate donations* of power tools: 2016: \$2831.78
- *Industry Donations* that funded our 2016 NCLC Landscape Contracting Team to travel to Mississippi State: \$12,347.
- Promoting and Recognizing the Value of Our Campus Trees: Spring 2016 Green Action Sustainability Fund K-State SGA. \$4235.
- Throckmorton Patio: \$10,000. Provided by K-State Administration and Finance. Spring 2015.
- Throckmorton Patio 2015 initial donations from Alumni: \$15,500.
- *Industry Donations* that funded our 2015 PLANET Landscape Contracting Team to North Carolina State University: \$9500.
- Critical Thinking Assessment (CAT) NSF Project Grant: \$6000. 2013-2015.
- *Industry Donations* that funded our 2014 PLANET Landscape Contracting Team to Colorado State University: \$5300.
- Irrigation Foundation Faculty Academy 2014 Travel Grant: \$650. Longwood Gardens.
- College of Agriculture, Scholarship of Teaching & Learning (SoTL) Grant: \$1500. 2013.
- Fall 2012 Provost Funded, "How the Brain Works" Thien, S., Williams, K., Fallin, J., & Lavis, C. \$20,000.
- NAPRCOLFEE COA/BOGGS 2013: \$3450. Used to purchase equipment, tools and other critical teaching props.
- *Industry Donations* that funded our 2013 PLANET Landscape Contracting Team to Auburn University, AL: \$4950.
- Irrigation Foundation Faculty Academy 2013 Travel Grant: \$900. Boise, ID.
- Irrigation Foundation Faculty Academy 2012 Travel Grant: \$685. Pauwauke, Wis.
- Faculty-Led Study Abroad Incentive Grant: \$3000. Explore potential sites for study abroad to Australia. July, 2012.
- *Industry Donations* that funded our 2011 PLAENT Landscape Contracting Team to Joliet Community College, IL. \$3050.
- Irrigation Foundation Faculty Academy 2011 Travel Grant: \$850. Walla Walla, WA.
- Irrigation Foundation Faculty Academy 2010 Travel Grant: \$650. Riverside, CA.

- *Industry Donations* that funded our PLANET 2010 Landscape Contracting Team to Chattahoochee Technical College, Atlanta, GA.: \$8797.
- NSF ADVANCE 2009 Institutional Transformational Project Grant: \$1500. Professional development to attend North Amer. Colleges Teachers Agr. (NACTA), OSU and the 85th International Society of Arboriculture Conference, RI.
- *Industry Donations* that funded our 2009 PLANET Landscape Contracting Team to Cal Poly Pomona: \$6550.
- Faculty-Led Study Abroad Incentive Grant: \$3000. Funds used to develop study abroad program to Costa Rica collaborating with Dr. John Unruh, Animal Science. May 2009.
- Irrigation Foundation Faculty Academy 2009 Travel Grant: \$500. Omaha, NE.
- USDA-CSREES GRANT 2008-2011: National Integrated Water Quality Program: **\$600,000**— Modifying Homeowner’s Lawn-Irrigation Behavior to Conserve Water and Improve Water Quality in Urbanizing Watersheds. Investigators: D. Bremer J. Ham, J. Fry, S. Keeley, C.C. Lavis, L. Moley, and R. St. John. 3 years.
- *Industry Donations* that funded our PLANET 2008 Landscape Contracting Team Industry to North Metro Community College, Atlanta, GE: \$6550.
- Irrigation Foundation Faculty Academy 2008 Travel Grant: \$650. Denver.
- *Industry Donations* that funded our PLANET 2007 Landscape Contracting Team Industry to Michigan State University, MI.: \$6250.
- KSU-ADVANCE 2007 Distinguished Lecture Series Grant: \$1200. Hosted Dr. Phil Allen: BYU, Provo. Teaching and assessment seminar and discuss KSU hosting the 2012 Professional Landcare Network (PLANET) Student Career Day and Competition with Dean Cholick and Associate Dean Boggs.
- NSF ADVANCE 2007 Institutional Transformation Project Grant: \$1291. Irrigation Foundation Faculty Academy, California Irrigation Technology Institute.
- KSU-ADVANCE 2007 IAB Departmental Initiative: \$2000. A. Dille, C.C. Lavis, M.B. Kirkham, M. Kennelly, C. Shoemaker, K. Williams. Tenure-track professional development, attended 27th Annual Conf.: *Critical Thinking for Higher Education*.
- KSU 2007 Tilford Incentive Grant: \$2000. Infusing Multicultural Competency into the Horticulture Curriculum: Redesigning and Assessing Multicultural Competencies in an Internship Course Sequence. C.C. Lavis, K.A. Williams, C. Shoemaker and G. Davis. Integrate multicultural competency into the HORT 190: Pre-internship class by developing various assignments that introduce pertinent concepts applicable to horticultural students: 1 year.
- KSU 2007 Tilford Incentive Grant: \$2000. Infusing Multicultural Competency into the Undergraduate Horticulture Curriculum: Diversity Issues Lecture Series. C. Shoemaker. G.L. Davis, C.C. Lavis, and K.A. Williams. Sponsored speakers with multicultural backgrounds to share information with undergraduate students: 1 year.

Non-Funded Grants

- KSU-TARGETED EXCELLENCE: \$1,103,594, “Greening KSU through the K-State Sustainable Landscape Arboretum. G.L. Davis, C.C. Lavis and L.R. Skabelund. 2008.
- National Arbor Day Foundation Campus Tree USA: \$3000. “The Re-establishment of the KSU Arboretum,” G.L. Davis and C.C. Lavis. Re-establish KSU as arboretum by strategically replacing many large, mature trees lost to a recent ice storm and age. 2008.

Invited Professional Presentations

2019:

- “What Does SMART Irrigation Really Mean and How Is It Achieved?” and “A Learning Potpourri – Watering, Tree Campuses, EAB, and Subsurface Drip” Think Trees New Mexico Conference, Albuquerque, New Mexico. January.

2018:

- Attended and presented at the Western Nursery & Landscape Association Conference (WNLA). January 19-20. Key note speaker "Have Horticulture Students Changed Over the Years or Is It Just Me?"
- "Have Horticulture Students Changed, or is it Just Me?" American Society of Irrigation Contractors. Quebec, Canada. February.

2018: Educational Programs

- "Saving Water with Pressure Regulation and Check Valves" February, Wichita, KS: SiteOne Landscape
- "The Physiological Effects of Planting—the basics." February, Wichita, KS: SiteOne Landscape

2017: Educational Programs

- "Water Use in the Landscape: How Efficient are We?" The Western Nursery and Landscape Association Conference. Kansas City. January 20.
- "Planting Trees and Shrubs." SiteOne University, Wichita, KS. Jan 31.
- "Pruning Young Trees and Landcape Shrubs." SiteOne University, Wichita, KS. Jan 31.
- "The Fundamentals of Irrigation Design." SiteOne University, Wichita, KS. Jan 31.
- "What does Smart Irrigation Really Mean and How is It Achieved?" SiteOne University, Wichita, KS. Jan 31.
- "Irrigation System Auditing." Kansas Parks & Rec State Conference. Manhattan. Feb 2.
- "What Homeowners can do to Improve Landscape Water Use Efficiency?" Liberal, KS. March 23.
- "Irrigation Water Efficiency Improvements," Stoney Valley Retirement, March 24.
- "Tips for Teaching Irrigation Auditing to Students," Irrigation Faculty Academy, June 15. Orlando, FL
- "What Master Gardeners Need to Know about Proper Water Application in the Landscape" Sedgwick County Master Gardener Presentation, July 20.
- "Examining Pieces of the Critical Thinking Puzzle: Raising faculty awareness." 37th Annual International Conference on Critical Thinking. Sonoma, CA. Aug.

2016: Educational Programs:

- "Explaining the Newly Update Ornamental Tree Evaluation Guideline," Kansas Arborist Association Annual Shade Tree Conference. Topeka, KS. January
- **Keynote Speaker:** "Where has all the water gone?" Leawood, KS Sustainability Summit: February 25
- "Promoting Water Conservation Practices in the Landscape." Hay, KS March 3 &4.
- Hands-on Pruning with Sedgewick County Master Gardener, Wichita. March 31.
- "Learning Irrigation by Hands-On Learning." Irrigation Faculty Academy. San Diego June 17.
- "What can you learn from an Irrigation Audit?" K-State Turf Field Days, Rocky Ford Research Farm. Aug. 8.
- Landscape Management Strategies for Landscape Architects. K-State AP Design. Sept.
- Kansas State University 1st Sustainability Workshop: What is Tree Campus USA and Why is this Title Important to the University." Nov. 11

2015: Educational Programs:

- "Teaching Practices that Work." K-State GTA Teaching Workshop. Jan. 16
- "Smart Irrigation Concepts." K-State Extension Workshop, Garden City and Dodge City. March 19 & 20.
- K-State GTA Fall Training Event: "Tips for Teaching" Aug 20
- "Landscape Management Strategies for Landscape Architects." K-State AP Design. Sept.
- "Sensing Moisture." Turfgrass Annual Conference. Dec. 2
- "Pruning Overgrown Evergreens." Turfgrass Annual Conference. Dec. 2
- "Striving for Efficient Landscape Irrigation Systems." K-State Extension Workshop. Liberal, KS. Dec. 4

2014 Educational Programs:

- "Irrigation Conservation Measures for the Homeowner." Topeka Garden Show. Feb 14.
- "What is Tree Campus USA?" Kiwanis Club, Manhattan. Feb 17.

- “Shrub Pruning: 101.” Kansas Arborist Association Training. Oct 10.
- “Simple Facts about Irrigation Auditing.” Turfgrass Annual Conference. Dec 3.

2013 Educational Programs:

- “Landscape Irrigation Equipment Updates.” Kansas Turfgrass Conference. Dec 4.
- “Rethinking Landscape Irrigation Practices with Equipment Selection.” *Governor’s Conference on the Future of Water in Kansas*. Oct 25.
- Workshop: Landscape Irrigation Auditing. K-State Gardens, July 13.
- Workshop: Hands-on Drip Irrigation. K-State Gardens, May 11.
- “Rethinking Irrigation Water Use for Landscapes by Promoting Water Conservation Practice,” *National Extension Conference*, Overland Park, KS. May 8.
- Turfgrass & Irrigation for Master Gardener Training: Pratt, Hays, & Salina, March 29-21.
- “Landscape Irrigation Auditing, Explained.” Manhattan Garden Show. Feb 16.
- “Drip Irrigation: What is it and How Does it Work?” Topeka Garden Show. Feb 15.

2012 Educational Programs:

- “Using the Right Products to Improve Irrigation Efficiency,” Master Gardens. Wichita, KS. Dec 6.
- “Tricks to Pruning Shrubs,” Kansas Turfgrass Conference, Topeka, KS. Dec 4.
- “Irrigation Updates,” Grounds Maintenance Workshop, Manhattan, KS. Feb 7.
- “Smart Residential Irrigation” Topeka Lawn & Garden Show. Feb 17.

2011 Educational Programs:

- “Pruning—Understanding Plants Response,” Kansas Arborist Association Training Workshop, Oct 7. Manhattan, KS.
- “KSU Horticulture Students and Irrigation Careers: What Are Students Thinking?” Results of a Survey. Irrigation Association Annual Conference. Nov 8. San Diego.
- “Gender and Horticulture” WOMST105: Introduction to Women’s Studies. Nov 14. KSU
- “Shade Trees for Alma, KS” presented to the Alma City Council. Nov 15.
- “What’s New in Irrigation?” Sedgwick County Extension Master Gardener Basic Training. Dec 1. Wichita, KS.

2010 Educational Programs:

- "Innovative Teaching Approaches," HFRR Departmental Seminar: Co-presenters-Dr. Jack Fry and Dr. Sid Stevens, March 30.
- "Teaching Students about Irrigation Sprinklers--Without Getting Wet!" Irrigation Association Faculty Academy, June 24. Riverside, CA.
- "Retention and Recruitment," HFRR Departmental Seminar: Co-presenters Marsha Landis and Dr. Steve Keeley. Oct 5.
- "The Art and Science of Shrub Pruning," Kansas Arborist Association Training Workshop, Oct 15. Manhattan, KS.

2009 Educational Programs:

- "How to Develop an Experiential Course to Teach Irrigation Principle," Irrigation Association Faculty Academy, June 25. Omaha, NE.
- "Shearing and Trimming—What is the Difference?" Kansas Arborist Assoc. Training Workshop, October 14. Manhattan, KS.
- "SMART Irrigation Technologies for Irrigation Management," Kansas Horticulture Agents Training Workshop, December 15. Wichita, KS.

2008 Educational Programs:

- "The Art and Science of Shrub Pruning Overgrown Shrubs," Kansas Arborist Association Training Workshop, October 10. Manhattan, KS.
- "Auditing Irrigation Systems," The 58th Annual Kansas Turfgrass Conference, November. Topeka, KS.
- "Selling *Smart* Irrigation System," Mid-America Green Industry Council (MAGIC) Conference. December. Kansas City, MO.

2007 Educational Programs:

- "Tips for Shrub Pruning, Dictating Industry Standards through Education," Kansas Arborist Assoc. Annual Shade Tree Conference. January. Topeka, KS.
- "Hosting an ADVANCE Distinguished Lecture Series Speaker," KSU ADVANCE luncheon. KSU Union. January 25.
- "So, What is Critical Thinking?" Women Faculty of KSU Agriculture. September 7.
- "Drip Irrigation in the Home Landscape," Master Gardener Training Workshop, September 28. Manhattan, KS.
- "The Art and Science of Shrub Pruning," Kansas Arborist Association Training Workshop, October 12. Topeka, KS.
- "Fundamentals of Shrub Pruning," Mid-America Green Industry Council (MAGIC) Conference, December 18. Kansas City, MO.

2006 Educational Programs:

- "What is Intellectual Development?" Excellence in Teaching and Learning: Always in Style, KSU-Faculty Exchange for Teaching Excellence (FETE) Teaching Renewal Retreat, January.
- "The Art and Science of Shrub Pruning," Kansas Arborist Association Training Workshop, October 13. Manhattan, KS.
- "Recognizing Intellectual Development of College Students," Teaching Symposium--Improving Student Learning: American Society of Agronomy/Crop Science Society of America/Soil Science Society of America (ASA-CSSA-SSSA). Session # 258-2, Nov. 15. Indianapolis, IN.

2005 Educational Programs:

- "The Benefits of Auditing Irrigation Systems," Kansas Turfgrass Annual Summer Field Days, August. Rocky Ford Research Facility, Manhattan, KS.
- "The Art and Science of Shrub Pruning," Kansas Arborist Association Training Workshop, October. Manhattan, KS.

2004 Educational Programs:

- "Electrical Troubleshooting Irrigation Systems," Western Nursery and Landscape Assoc. Annual Conference, January. Overland Park, KS.
- "Shrub Pruning and Maintenance Practices," Kansas Rec. and Park Association Annual Conference, January. Topeka, KS.
- "Shrub Pruning Tricks and Hints," Kansas Arborist Association Annual Shade Tree Conference, January. Manhattan, KS.
- "Tree Care and Maintenance," Professional Grounds Management Society Conference: January. Overland Park, KS.
- "What Really is the Right Way to Prune Shrubs?" Kansas Arborist Association Annual Shade Tree Conference. January, Manhattan, KS.
- "The Art and Science of Shrub Pruning," Kansas Arborist Association Training Workshop, October, Manhattan, KS.

Professional Presentations

2018:

- "Saving Water with Pressure Regulation and Check Valves" February, Wichita, KS: SiteOne Landscape
- "The Physiological Effects of Planting—the basics." February, Wichita, KS: SiteOne Landscape

2017:

- "Water Use in the Landscape: How Efficient are We?" The Western Nursery and Landscape Association Conference. Kansas City. January 20.
- "Tips for Teaching Irrigation Auditing to Students," Irrigation Faculty Academy, Orlando, FL
- Examining Pieces of the Critical Thinking Puzzle: Raising faculty awareness. 37th Annual International Conference on Critical Thinking. Sonoma, CA. Aug.

2016:

- "Explaining the Newly Update Ornamental Tree Evaluation Guideline," Kansas Arborist Association

Annual Shade Tree Conference. Topeka, KS Jan 14.

- Keynote Speaker. “Where has all the Water Gone?” Sustainability Summit: Leawood, KS. Feb 25
- “Learning Irrigation by Hands-On Learning: Installing a Residential Irrigation System.” Irrigation Faculty Academy. San Diego June 17.

2014:

- “Learning Horticulture at K-State.” Professional Grounds Management Summer Program at Toro Headquarters. Minneapolis, MN.

2013:

- “Rethinking Irrigation Water Use for Landscapes by Promoting Water Conservation Practice,” National Extension Conference, *selected speaker*. Overland Park, KS.
- *Governor’s Conference on the Future of Water in Kansas*, “Rethinking Landscape Irrigation Practices with Equipment Selection.

2010:

- "Teaching Students about Irrigation Sprinklers--Without Getting Wet!" Irrigation Association Faculty Academy, June 24. Riverside, CA.

2009:

- "Installation of a Residential Irrigation System: A Significant Learning Experience in Landscape Irrigation Undergraduate Course," Poster. NACTA Annual Conf., June 18. OSU, Stillwater, OK.
- "How to Develop an Experiential Course to Teach Irrigation Principle," Irrigation Association Faculty Academy, June 25. Omaha, NE.

2005:

- "Evaluating Intellectual Development of Horticultural Students: The Impact of Two Teaching Approaches Using Perry’s Scheme of Intellectual Development as Measured by The Learning Environment Preference," KSU-Department of Agronomy Seminar, November.
- "Intellectual Development of Horticultural Students using the Perry’s Scheme," American Society for Horticultural Science (ASHS) Annual Conference, July 17-21. Las Vegas, NV.

2004:

- "Exploring the Reliability of Using the Learning Preference Inventory as a Valid Measure of Perry’s Scheme of Intellectual Development of College Students," North American Colleges & Teachers of Agriculture (NACTA) Conference, June 22. Gainesville, FL.

Professional Development and Workshops Attended

2018:

- The Western Nursery & Landscape Association Conference. Jan
- Irrigation Association Conference and Trade Show: Long Beach, CA. Dec 4-7.

2017:

- Kansas Arborist Association Shade Tree Conference. Jan 12-15
- The Western Nursery & Landscape Association Conference. Jan 19-20
- Hosted the Faculty Exchange for Teaching Excellence (FETE) Spring Teaching Workshop, “Critical Thinking Across Curricula.” Dr. Gerald Noisch. January 27.
- SiteOne University. Wichita, KS January 31.
- Extension PFT. June 13
- 15th Annual Faculty Academy. Irrigation auditing instructor. June 15-16. Orlando.
- Led the Kansas State University: Summer Workshop—“How can I design critical thinking into my Program?” June 28.
- Kansas State University: Summer Workshop—“How can I assess critical thinking in student centered work?” July 11
- Kansas State University: Summer Workshop—“How can I assess critical thinking with objective items?” July 20
- Kansas State University: Summer Workshop—“What activities and assignments promote critical

thinking?” Aug 8

- Attended the International Irrigation Association (IA) Conference. November 6-9.Orlando.
- Extension PFT. Dec 13.

2016:

- Kansas Arborist Association Shade Tree Conference. Jan 13-15
- Western Nursery & Landscape Association Conference. Jan 21 -22
- Hosted the Faculty Exchange for Teaching Excellence (FETE) Spring Teaching Workshop: Generation Me: Dr. Jean Twenge. Feb 5.
- 40th Annual National Collegiate Landscape Competition: K-State Team: 8th/63 schools
- Spotlight on K-State. March 1.
- Big XII Teaching Conference, K-State. June 2-3.
- 14th Annual Irrigation Faculty Academy, San Diego. June 16-17.
- “Have Horticulture Students Changed over the Years, or is it Just Me?” Plant Right Networkshop. Kansas City. Nov

2015:

- Hosted the Faculty Exchange for Teaching Excellence (FETE) Spring Teaching Workshop: Motivating 21st Century Learners: Dr. Raymond Wlodkowski and Dr. Margery Ginsberg. Jan 30 & 31.
- The 39th PLANET SCDs. Team Coach, March, North Carolina.
- “Spotlight K-State.” March 24.
- “Teaching the Large Lecture.” Mick Charney, Coffman Leadership Presentation. April 16. Hemisphere Room
- “What’s new at the John Pair Center?” PFT Training. Wichita June 16 & 17
- 13th Annual Irrigation Faculty Academy. June
- Fall Faculty Exchange for Teaching Excellence Workshop. Dr. Kimberly Williams, “Taking the Plunge into Conducting a Scholarship of Teaching & Learning Project into Your Classroom.” Sept 18. Hemisphere Room.
- Kansas Turfgrass Conference. Topeka. Dec 2-4
- “Understanding GMOs.” PFT Training, Dec 16.

2014:

- Hosted the Faculty Exchange for Teaching Excellence (FETE) Spring Teaching Workshop: Actively Engaging the Brain: Dr. Jeannie Loeb, University of North Carolina, “The Brains Behind Teaching and Learning;” and, Dr. Howard, Butler University, “Why Won’t They Talk?: Using Discussion and Active Engagement to Facilitate Learning,” Jan 31 & Feb 1.
- The 38th Annual PLANET SCDs. Team coach, March Colorado State.
- “Spotlight on K-State,” March 31.
- Provost Lecture Series, “Games without Frontiers: Promoting Active Learning in the Classroom and Beyond.” Dr. John Fliter. 2013-2014 Coffman Chair for Distinguished Teaching Scholars, May 9.
- Hosted Critical Thinking Assessment (CAT) Workshop, June 12.
- The 12th Irrigation Foundation Faculty Academy, Longwood Gardens, June 22-24.
- International Society of Arboriculture Annual Conference. Milwaukee, Aug 2-4.
- Professional Grounds Management Summer Program at Toro and Bailey’s Nursery. Minneapolis, Aug 5-6.
- CoA Fall Teaching and Advising Workshop; “Students and Faculty: Leading for Inclusion” Cargill Global Inclusion and Diversity Facilitators, Eric Ahlness and Shannon Lueck, Aug 18.
- Hosted FETE Fall Workshop, “Brainstorming: Maximizing Learning in the K-State Classroom,” Sept 12.
- “Reclaiming the Lecture,” Dr. Mick Charney, 2014-2015 Coffman Chair for the University Distinguished Teaching Scholars, Oct 2.
- Hosted Dr. Todd Zajseheck, “The New Science of Learning: Concepts and Strategies for Changing the Way We Teach,” Oct 2.

- Hosted Peter Wirtz, Belgian landscape architect. “Why Being a Horticulturist First is Key to Being a Good Landscape Designer or LA,” Nov 13.
- Irrigation Association Conference and Tradeshow, Phoenix, Nov 20-22.
- Extension PFT: “Understanding Trees and Their Care,” Manhattan, Dec 18-19.

2013:

- Faculty Exchange for Teaching Excellence Spring Teaching Workshop: S4 Simple Strategies for Student Success. K-State: February 1-2.
- Innovations in Teaching and Learning Technology Conference. K-State. March 4.
- “Invested Faculty,” Center for the Advancement of Teaching & Learning. April 11.
- The 37th PLANET SCDs, Coach, Auburn University. March
- “Ten Things You Should Know about the Brain and Learning,” FETE/CATL. Dr. Jane Fishback. K-State Campus. March 15.
- “The Brain.” FETE/CATL: Dr. Sally Bailey. K-State. April 26.
- The Year of the Brain Study Group. June, 11. July 10. K-State Campus.
- The 11th Irrigation Foundation Faculty Academy. Boise, ID. June 20-21.
- Davey Tree Experts Faculty Training. July 27.
- Year of the Brain: Dr. David Sousa. September 19
- Irrigation Association Annual Conference and Tradeshow: November 6,7
- Critical Thinking Assessment Training Workshop. November 23, 24. Washington DC
- Kansas Turfgrass Conference: December 4
- “Essential Elements of Successful Education Research Proposals” Dr. Emmalou Norland, Senior Policy Analyst & Advising Social Scientist Office of Research & Development of the US Environmental Protection Agency (EPA). K-State Campus. December 16.

2012:

- National Green Industry Show, Kansas City. January 8-9.
- The 9th Annual KSU- Faculty Exchange for Teaching Excellence (FETE) Teaching Renewal Retreat: "Excellence in Teaching & Learning: Challenges & Opportunities," January 11.
- *Hosted* the 36th PLANET Student Career Days, March 22-25.
- Horticulture Program Focus Team Summer Training; “Climate Change,” Wichita (Sedgwick County Extension Office), June 12-14.
- The 10th Irrigation Faculty Academy, Watertronics, Wisconsin, June 15-16.
- Train the Trainer, [Invited participant], Husqvarna & ArborMaster, June 24-29.
- International Society of Arboriculture Annual Conference. August, Portland, OR.
- Regional Professional Grounds Management Society Meeting. August, Portland, OR.
- KSU-College of Agriculture Teaching Workshop, “Undergraduate Research.” August 9.
- The Art and Science of Teaching, Mr. Bryce Lane, North Carolina State University. September 20. KSU campus. FETE/CATL sponsored event.
- KSRE Annual Conference, October 17.
- Hint Fiction/Vivid Grammar, Quick and Easy Ways to Jump-Start Writing, Dr. Mick Charney, College of Architecture, Planning & Design, KSU campus. November 8.
- Plant Right Net-Workshop, Lenexa, KS. November 28.
- Irrigation Association (IA) Annual Conference and Tradeshow, Nov. 4-6. Phoenix
- Kansas State Annual Turfgrass Conference. Topeka. December 4.
- Horticulture PFT Agent Training, December 11 & 12.

2011:

- KSU-College of Agriculture Teaching Workshop, “Navigating Difference in the College of Agriculture,” January 11.
- Kansas Arborist Association Shade Tree Conference, January 12.
- The 8th Annual KSU-Faculty Exchange for Teaching Excellence (FETE) Teaching Renewal Retreat:

"Leading a Community of Learners," January 13.

- American Nursery and Landscape Association Management Clinic, January 25-28.
- Topeka, KS Area Garden Show, February 19.
- The Manhattan, KS Area Garden Show, February 26.
- KSU-Teaching, Learning, and Technology Showcase, March 1.
- The 35th PLANET SCD, Coach, March. Joliet Community College, IL.
- The 9th Irrigation Foundation Faculty Academy. Walla Walla, Wash. June
- Nurseryworks Conference, KSU Extension, June 15-16.
- International Society of Arboriculture Annual Conference, Australia, July.
- "Creating Change: Reforming Curricula for the 21st Century", National Academic Program Summit, Association of Public and Land Grant Universities, August 3-5.
- Irrigation Association (IA) Annual Conference and Tradeshow, Nov. 4-6. San Diego.
- Hort Program Focus Team—Dec Training. Olathe Hort Research & Exten. Center.

2010:

- The 7th Annual KSU-Faculty Exchange for Teaching Excellence (FETE) Teaching Renewal Retreat: "Meeting Students Where They Are," January 12.
- KSU-Peer Review of Teaching Program *Selected* Participant, Spring Semester.
- Manhattan, KS Area Garden Show, February.
- Study Abroad Tuscany, Italy, March 11-21 [7 students].
- The 34th PLANET SCDs, Coach April. Chattahoochee Technical College, Atlanta, GA.
- The 8th Irrigation Foundation Faculty Academy, June 23-25. Riverside, CA.
- The 2nd Annual Irrigation Association (IA) Water Conference: "Water, Irrigation and the Future," July 13-14. Williamsburg, VA.
- National Conference, "Student Recruitment, Marketing, and Retention," Noel-Levitz Convened, July 21-23. Atlanta, GA.
- KSU-College of Agriculture Teaching Workshop, "Enhancing Teaching Effectiveness in Agriculture: Testing What We Teach," August 11.
- KSU-Faculty Leader Pre-Departure Orientation: Group Study Abroad Programs, Oct 5.
- KSU-Faculty Exchange for Teaching Excellence Swap Session, "Facebook Use Among College Students," October 14.
- The 60th Annual Kansas Turfgrass Conference and Tradeshow, Dec. 9.
- Irrigation Association (IA) Annual Conference and Tradeshow, Dec. 6-8. Phoenix, AZ.

2009:

- Western Nursery and Landscape Association Conference, Jan. 4-5. Overland Park, KS.
- The 6th Annual KSU-Faculty Exchange for Teaching Excellence (FETA) Renewal Retreat: "On the Road to Teaching Excellence: Our Journey as Teachers," January 13.
- The 54th Annual Kansas Arborist Association Shade Tree Conf., Jan 14-16. Topeka, KS.
- "Leading Kansas in Sustainability," Jan 23. Johnson CC College, Overland Park, KS.
- American Nursery & Landscape Association (ANLA) Management Clinic, Feb 6-10.
- Manhattan Area Garden Show, February. Manhattan, KS.
- The 33rd Professional Landscape Network (PLANET) Student Career Days, Team-Coach and Advisor, March 26-29. Cal Poly Pomona.
- Midwest Tree Care Forum, Chicago [2 students], April 3-5.
- The 6th KSU Annual Diversity Summit, "Today's American Indian: Grounded in Tradition, While Reaching for the Future," April 3.
- KSU-ADVANCE Prof. Development Lecture: "Inquiry as a Means of Engaging Students & Teacher: A Plant Pathology Example," Dr. Paul Vincelli, U. of Kentucky. April 8.
- Study Abroad Costa Rica, May 17-June 2. [13 students, 5 horticulture students].
- Kansas Arborist Association Summer Field Day, June. Clinton Lake, KS.

- The 55th Annual North American Association of College and Teachers of Agriculture (NACTA), June 17-20 [1 presentation]. OSU, Stillwater, OK.
- The 7th Irrigation Foundation Faculty Academy, June 24-25. Omaha, NE.
- The 1st Irrigation Association (IA) Water Conference: "Water, Irrigation and the Environment," July 22-23. Park City, UT.
- The 85th Annual International Society of Arboriculture (ISA) Educational Conference and Trade Show, July 24-29. Providence, RI.
- KSU-College of Agriculture Teaching Workshop, "Enhancing Teaching Effectiveness in Agriculture: Academic Advising: Connecting to Learning, Student Success, and Retention," Dr. Charlie L. Nutt, National Academic Advising Association, August 14.
- Irrigation Association Annual Conference and Tradeshow, Dec. 4-6. San Antonio, TX.

2008:

- Western Nursery and Landscape Assoc. Conference, Jan. 6-7. Overland Park, KS
- The 53rd Annual Kansas Arborist Assoc. Annual Shade Tree Conf., Jan. Topeka, KS.
- KSU-College of Agriculture Teaching Workshop "Enhancing Teaching Effectiveness in Agriculture: Understanding Students. Student Distress: Being Prepared to Recognize, Respond, Refer," Dan Wilcox, Assistant Director of K-State Counseling Services and "Generation NeXt Comes to College," Dr. Mark Taylor. January 14.
- The 5th Annual KSU Faculty Exchange for Teaching Excellence (FETE) Teaching Renewal Retreat, "Advising as Teaching," January 15.
- KSU-IDT Roundtable, "UTube in the Classroom," January 24.
- KSU-Women in Science Luncheon and Presentation, January 30.
- American Nursery & Landscape Association (ANLA) Management Clinic. Feb. 8-11.
- Topeka, KS Lawn and Garden Show, February 15.
- Manhattan, KS Area Garden Show, February.
- KSU-IDT Roundtable, "Online vs. Face-to-Face Instruction," Ben Ward, Swasati Mukherjee and Shalin Hai-Jew, February 22.
- Wichita, KS Lawn and Garden Show, March 5.
- KSU-Faculty Exchange for Teaching Excellence (FETE). "Arousing Student Curiosity," Dr. Jim Eison, University of Florida, March 9.
- The 32th Professional Landscape Network (PLANET) Student Career Days, Team-Coach and Advisor, March 27-30. North Metro Community College, Atlanta, GE.
- KSU-Advising Workshop: "Advising Success," April 17.
- Study Abroad Trip with North Carolina students and Dr. Stu Warren--explorative trip, May 26-June 8. France and Italy.
- Kansas Arborist Association Summer Field Day, June 20. Clinton Lake, KS.
- The 6th Irrigation Foundation Faculty Academy, June 26-27. Denver, CO.
- Kansas Turfgrass Summer Field Day, August 7. KSU-Rocky Ford Research Facility.
- KSU-College of Agriculture Teaching Workshop, "Excellence in Teaching versus Scholarship of Teaching and Learning," Dr. Michel Wattiaux, U. of Wisconsin, Aug 11.
- KSU-College of Agriculture Workshop, "Tenure and Promotion," August 14.
- KSU-College of Agriculture, "Inspire Students, Deter Hate, Promote Inclusion," Brandon Wilson, Higher Education Consultant, Wilbron Institute, August 18.
- KSU-College of Agriculture Teaching Workshop, "Enhancing Teaching Effectiveness in Agriculture: A Pedagogy for Today's Learners," Dr. Mark Taylor, September 14.
- Irrigation Association Annual Conference and Tradeshow, Oct 31-Nov 2. Anaheim, CA.
- KSU-Grant Writing Workshop, November 13.
- The 58th Annual Kansas Turfgrass Conference and Tradeshow, [1 invited presentation], November 18-20. Topeka, KS.
- Mid-America Green Industry Council (MAGIC) Heartland Green Industry Conference. [1 invited

presentation], December 17. Overland Park, MO.

2007:

- Western Nursery and Landscape Assoc. Conference. Jan. 8-9. Overland Park, KS.
- The 52nd Annual Kansas Arborist Assoc. Shade Tree Conf. [1 invited pres.], Jan. Topeka.
- Nebraska Arborist Association Winter Conference, January 19. Lincoln, NE.
- American Nursery & Landscape Association (ANLA) Management Clinic, Jan 31-Feb 3.
- KSU-Target of Excellence Colloquial, February 19.
- KSU-Teaching Workshop: "The Psychology of Ordinary Prejudice," Dr. Anthony Greenwald, Professor of Psychology; University of Washington, February.
- KSU-Tilford Multicultural Group: "What Will a Course Look Like After Multicultural Curriculum Change?" March 7.
- The 31th Professional Landscape Network (PLANET) Student Career Days, Team-Coach and Advisor, March 28-April 1. Michigan State University, MI.
- KSU-Women in Science, April 19.
- KSU-North Central Region Teaching Symposium, May 23-24.
- KSU-ADVANCE Leadership Development Workshop, June 5.
- Kansas Arborist Association Summer Field Day, June 15. Clinton Lake, KS.
- The 5th Irrigation Foundation Faculty Academy, Center for Irrigation Technology, June 27-29. Fresno, CA.
- The 27th Annual International Conference on Critical Thinking: "Critical Thinking in Every Field of Knowledge & Belief; Ultimate Goals, Subject-Based Contextualization, Documented Results," July 23-26. Berkley, CA.
- Kansas Turfgrass Summer Field Day, August 2. KSU-Rocky Ford Research Facility.
- KSU-Distinguished Lecture: "Respecting the Future," Dr. David Oakey, October 19.
- Irrigation Association Annual Conference and Tradeshow, Dec 7-9. San Diego, CA.

2006:

- Western Nursery and Landscape Association Conference. Jan 7-8, Overland Park, KS.
- The 3rd Annual Faculty Exchange for Teaching Excellence (FETE) Teaching Renewal Retreat, "Excellence in Teaching and Learning: Always in Style," January 9.
- The 51st Annual Kansas Arborist Association Shade Tree Conference, Jan 11-13.
- KSU-College of Agriculture Teaching Workshop: "Enhancing Teaching Effectiveness in Agriculture: The Changing Face of College Students," Dr. Blaine Thomas, January 16.
- American Nursery & Landscape Association Management Clinic, February 1-4.
- KSU-IDT Roundtable: "Online vs. Face-to-Face Instruction," February 22.
- Mid-American Collegiate Horticultural Society (MACHS) student competition team and event, [3 students], March 3-5. Colorado State University, Fort Collins, CO.
- KSU-Faculty Exchange for Teaching Excellence (FETE): "Arousing Student Curiosity," Dr. Jim Eison, March 13.
- The 30th Professional Landscape Network (PLANET) Student Career Days, Team-Coach and Advisor, March 23-26. Brigham Young University, Provo, UT.
- KSU-Worker Protection Standard (WPS) Training, April 27.
- Wakonse Fellow Experience, "Building a Community of Support for College Teaching" May 25-30. Miniwanca Camp, Lake Michigan, MI.
- Midwest Tree Climbing Championship Event Judge, June 9-10. Manhattan, KS.
- Kansas Arborist Association Summer Field Day, June 12. Clinton Lake, KS.
- American Society for Hort. Science (ASHS), [1 pres.], July 17-21. Las Vegas, NV.
- KSU-Third Annual James R. Coffman Leadership Institute, "Knowing Yourself, Knowing Others & Building Community," Aug 9-11. Rock Springs Center, KS.
- KSU-College of Agriculture Workshop "Enhancing Teaching Effectiveness in Agriculture: Classroom Movement: Inspire Students, Deter Hate, and Promote Inclusion," August 18.

- KSU- Honor and Integrity System Professional Development Series. Fall.
- American Society of Agronomy/Crop Science Society of America/Soil Science Society of America (ASA-CSSA-SSSA) Annual Meeting, [1 presentation], "Improving Student Learning Symposium," November 14-16, Indianapolis, IN.
- Irrigation Association Annual Conference and Tradeshow. Dec 3-5. San Antonio, TX.

2005:

- Western Nursery and Landscape Assoc. Conf. [1 invited pres.], Jan. Overland Park, KS.
- The 2nd Annual KSU-Faculty Exchange for Teaching Excellence (FETE) Teaching Renewal Retreat, Session Format, January. Rock Spring Center, Junction City, KS
- The 50th Annual Kansas Arborist Assoc. Conf., [1 invited pres.], Jan. Manhattan, KS.
- KSU-College of Agriculture, "Enhancing Teaching Effectiveness in Agriculture: Making Connections between Students and Instructors," January.
- American Nursery & Landscape Assoc, Management Clinic. [Faculty scholarship], February 2-5.
- Mid-American Collegiate Horticultural Society (MACHS) student competition and event, [5 students], March. University of Urbana, IL.
- The 29th Professional Landscape Network (PLANET) Student Career Days, Team-Coach and advisor, March. University of Maryland, College Park, MD.
- KSU-Teaching Workshop, "Assessment," April.
- "First Educators Summit" International Arborist Society (ISA), June. Morton Arboretum.
- Kansas Turfgrass Summer Field Day. [1 pres.], Aug. KSU-Rocky Ford Res. Facility.
- Kansas Horticulture Extension Workshop: "Urban Trees: New & Improved Techniques for Greening Communities," December 16. Wichita, KS

2004:

- Western Nursery and Landscape Assoc. Conf. [1 pres], Jan 4-6. Kansas City, MO.
- Kansas Rec. and Park Assoc, (KRPA) Annual Conf., [1 pres.], Jan 13. Topeka, KS.
- The 49th Annual Kansas Arborist Assoc. Shade Tree Conf., [1 pres.], Jan. Manhattan, KS.
- KSU-College of Agriculture "Enhancing Teaching Effectiveness in Agriculture: Workshop Student Learning Outcome: The Course Syllabus," January 16.
- The 1st Annual KSU-Faculty Exchange for Teaching Excellence (FETE) Renewal Retreat, January 20. Rock Springs Center, Junction City, KS.
- Topeka, KS Lawn and Annual Garden Show, February 8.
- Manhattan, KS Lawn and Annual Garden Show, February 28.
- K-State "LEA/RN: Learning Enhancement Action/Resource Network, "Jan- May.
- The 28th American Landscape Contractors Association (ALCA) Student Career Days, Team-Coach and Advisor. March 24-29, Columbus State C. C., Columbus, OH.
- KSU "Assessment Workshop," April 16.
- Kansas Arborist Summer Field Day, June 4. Topeka, KS.
- The 50th Annual North American Colleges and Teachers of Agriculture (NACTA) Conference, "Teaching Students to Think and Reason," [1 pres.], June. Gainesville, FL.
- Kansas Nursery and Landscape Association Summer Event, July 24-25. Topeka, KS.
- KSU-Brain-based Learning discussion groups: Dr. Steve Thien: Spring & Fall Semesters.
- Kansas Turfgrass Annual Summer Field Day, [1 invited pres.], Aug. KSU- Rocky Ford Research Facility
- KSU-College of Agriculture Teaching Workshop, "Effective Teaching," August 12. KSU- Advisor Forum: "Understanding Liabilities as a Student Org. Advisor," November.

2003:

- Western Nursery and Landscape Assoc. Conference. January. Overland Park, KS.
- The 48th Annual Kansas Arborist Assoc. Shade Tree Conference, Jan. Manhattan, KS.
- KSU-Teaching Workshop, "Assessing Student Learning," Dr. Cia Verschelden. Jan 10.
- KSU-Faculty Exchange for Teaching Excellence (FETE) Swap Sessions, [1 pres.], January 14.

- The 27th American Landscape Contractors Association (ALCA) Student Career Days, Team-Coach and Advisor. Hinds Community College. March.
- KSU Composting Operator's School, "Trends in Composting in Kansas," June 25-26.
- Kansas Nursery and Landscape Association (KNLA) Summer Conference. August 10-12.
- KSU-College of Agriculture Teaching Workshop, "Enhancing Teaching Effectiveness in Agriculture: It hasn't been taught until it's been learned," Dr. Steve Thien. August.
- K-State "LEA/RN: Learning Enhancement Action/Resource Network" Sept-Dec.
- Associated Landscape Contractors of America (ALCA), Green Industry Conference, November 5-9, [accompanied 8 students], St. Louis, MO.

2002:

- Western Nursery and Landscape Assoc. Conference. January. Overland Park, KS.
- The 47th Annual Kansas Arborist Assoc. Shade Tree Conference, January. Manhattan, KS
- The 1st Irrigation Assoc. Educ. Foundation Faculty Academy, June. Indianapolis, IN.

2001:

- Western Nursery and Landscape Assoc. Conference, January. Overland Park, KS.
- The 46th Annual Kansas Arborist Assoc. Shade Tree Conference, January. Manhattan, KS
- Kansas Arborist Association Summer Field Day, June
- Irrigation Association *Train the Trainer*, August. Kansas City, MO.
- Earned Certified Landscape Irrigation Designer (CID): Irrigation Association, June 20.

2000:

- Western Nursery and Landscape Assoc. Conference, January. Overland Park, KS.
- The 45th Annual Kansas Arborist Assoc. Shade Tree Conference, January. Manhattan, KS
- KSU-LEARN--Active Learning: "Classroom Strategies, Part I and Part II," Dr. Barbara L. Licklider and Dr. Jan Wiersema, Iowa State University: Spring.
- Wichita, KS Lawn and Annual Garden Show, March 4.
- International Society of Arboriculture Conference, August 6-9. Baltimore, MD.
- Professional Arborist Training and Climbing Workshop; Arbor Master Training Program, July. Charlotte, North Carolina.
- Husqvarna "Train the Trainer," [Invited], Charlotte, North Carolina, August.
- Annual Irrigation Association Conference and Tradeshow, November. Orlando, FL.

1999:

- Western Nursery and Landscape Assoc. Conference, January. Overland Park, KS.
- The 44th Annual Kansas Arborist Assoc. Shade Tree Conference, January. Manhattan, KS
- KSU-Certificate of Successful Leadership Training Program, June 4.
- Irrigation Association Installation Training Workshop. June 7-11. Los Angeles, CA
- KSU-"Diversity Awareness" Workshop, July 20. Overland Park, KS.
- Earned Certified Landscape Irrigation Auditor (CLIA): Irrigation Association, Aug 1999.
- International Society of Arboriculture Conference. Tree Academy Urban Soils Workshop. Dr. Phillip J. Craul, July 30-August 3. Stamford, CT.
- Professional Arborist Training and Climbing Workshop; Arbor Master Training Program, August 5-7. Raleigh, NC.
- Annual Irrigation Association Conference and Tradeshow, October, San Diego, CA.
- KSU-College of Agriculture Teaching Workshop: "Educating the Whole Person for a Lifetime," Liberty Hyde Bailey Scholars Program.

1998-1992:

- KSU-College of Agriculture Teaching Workshop, "Enhancing Teaching Effectiveness in Agriculture: Improving Learning in the Classroom," January 1998.
- The 43rd Annual Kansas Arborist Assoc. Shade Tree, January 14-16. Manhattan, KS

- KSU-College of Agriculture Teaching Workshop, "Enhancing Teaching Effectiveness in Agriculture: Building Communication into Classroom Lectures," Dr. Nancy R. Goulden and Dr. Lynn Ross, January 1997.
- KSU-College of Agriculture Teaching Workshop, "Enhancing Teaching Effectiveness in Agriculture: Advising Graduates for a Changing Workplace," August 1997.
- KSU-Teaching Workshop, "Putting Your Course On-line: A How-to for Faculty," November 13, 1997.
- KSU-College of Agriculture Teaching Workshop, "Enhancing Teaching Effectiveness in Agriculture: Assessing Student Learning," Dr. Thomas A. Angelo, January 1996.
- KSU-College of Agriculture Teaching Workshop, Enhancing Teaching Effectiveness in Agriculture: Enhancing Communications and Listening Skills," Dr. John Campbell and "Are You Saying What You Want to Say?" Dr. Nancy Goulden, August 1996.
- KSU-College of Agriculture Teaching Workshop: "Enhancing Teaching Effectiveness in Agriculture: Teaching—Learning Forum," Dr. L. H. Newcomb, August 1995.
- KSU-College of Agriculture "Enhancing Teaching Effectiveness in Agriculture, The First Day of Class," August 1994
- KSU-Teaching Workshop: "Evaluating Student Learning," 1993
- The 6th Annual National Conference, "Specialty Cut Flowers, From a Grower's Perspective," Nov 4-7, 1993. Kansas City, MO.
- KSU-Teaching Workshop: "Critical Thinking—Higher Order Learning," Dr. Keith Wharton: 1992.
- "Physiology and Determination of Crop Yield," American Society of Agronomy (ASA) Conference, June 10-14, 1991. Gainesville, FL.

Undergraduate Advisees Recognition, Awards, Scholarships [\$195,050.00—2007-to date]

- \$500. Kansas Nursery & Landscape Association—Renata Goossen. 2018
- \$1000. Irrigation Foundation Scholarship—Bruce Moore. 2018
- \$2000. E3 Winner, Irrigation Foundation—Bruce Moore. 2018
- \$2000. Kansas Arborist Association Scholarship—Diana Vasquez. 2018
- \$1000. Men's Garden Clubs of America—Karen Schneck. 2018
- \$1500. Perennial Plant Association Scholarship—Bruce Moore. 2018
- \$5000. Proven Winners Scholarship—Karen Schneck. 2017
- \$250. Lawrence 4-H Scholarship—Karen Schneck. 2017
- \$500. Topeka Daylily Society—Lauren Walz. 2017
- \$3000. Johnson Country Extension Master Gardeners Scholarship—Lauren Walz. 2017
- \$1000. Men's Garden Clubs of America—Karen Schneck. 2017
- \$2000. Kansas Arborist Association Scholarship—Lauren Walz. 2017
- \$1000. National Association of Landscape Professionals Scholarship—Karen Schneck. 2017
- \$1000. National Association of Landscape Professionals Scholarship—Bruce Moore. 2017
- \$1000. National Association of Landscape Professionals Scholarship—Andrea Johnson. 2017
- \$1000. The Davey Tree Expert Scholarship—Bruce Moore. 2016
- \$500. Kansas Nursery & Landscape Association Scholarship—Andrea Johnson. 2016
- \$1000. National Association Landscape Professional Scholarship—Andrea Johnson. 2016
- \$3000. Johnson Country Extension Master Gardeners Scholarship—Karen Schneck. 2016
- \$1000. National Association Landscape Professional Scholarship—Karen Schneck. 2016
- \$3000. Trans-Mississippi Golf Scholarship—Kelley Thompson. 2016
- \$1000. Kansas Associated Garden Clubs Scholarship—Danielle Haynos. 2016
- \$3000. National Vic and Margaret Ball Internship Scholarship—Rachael Peterson. 2016
- \$6000. National Vic and Margaret Ball Internship Scholarship—Matt Briggs. 2016
- \$3000. National Vic and Margaret Ball Internship Scholarship—Kendall Lolley. 2016
- \$3000. Johnson Country Extension Master Gardeners Scholarship—Andrea Johnson. 2015
- \$500. Gardens Writers Association Foundation—Pallace Schnittker. 2015

- \$1000. PLANET: Gravelly Landscape Maintenance—Kelsey Hatesohl. 2015
- \$1000. PLANET: Pallace Schnittker. 2015
- \$1000. Kansas Masonic Foundation. Kellen Womochil. 2015
- \$1000. Kansas Arborist Association—Luke Becker. 2014
- \$1000. Davey Tree Experts—Luke Becker. 2014
- \$1000. Davey Tree Experts— Andrew McNeive. 2014
- \$500. Rothwell Landscape PLANET Grant—Elizabeth McKinney. 2014.
- \$3000. National Garden Clubs of America—Luke Becker. 2013
- \$1000. Missouri Gardens Clubs—Luke Becker. 2013
- \$1000. Davey Tree Scholarship—Luke Becker. 2013
- \$1000. Tree Fund, John Wright Memorial Scholarship—Luke Becker. 2013
- \$3500. National Garden Clubs—Justin Brock. 2012
- \$1500. Kansas Garden Club—Justin Brock. 2012
- \$2500. Perennial Plant Association—Marianne Maddeford. 2012
- \$1500. Johnson County Extension Master Gardeners—Blake Moroney. 2012
- \$1000. Greater Kansas City Gardeners of American—Justin Brock. 2012
- \$1000. Kansas Arborist Association—Justin Brock. 2012
- \$750. (Regional) Greater KC Gardeners of America Scholarship—Justin Brock. 2011
- \$1000. (National) The Gardeners of America / Men's Garden Clubs of America Scholarship—Justin Brock. 2011
- \$3500. National Garden Clubs, Inc. Scholarship—Justin Brock 2011
- \$1000. Kansas Arborist Association—Luke Young. 2011.
- \$1000. Kansas Arborist Association—Justin Brock. 2011
- \$1000. Dr. Ray Keen Horticulture Scholarship—Marianne Maddeford. 2011
- \$300. Overland Park Gardeners of America--Justin Brock. 2011
- \$2000. Johnson County Master Gardeners—Luke Young. 2010-11.
- \$1000. Gardeners of America, Kansas City Chapter—Marianne Maddeford. 2010-11.
- \$1000. Men's Garden Club—Justin Brock. 2010-11.
- \$3000. Norma Rae Memorial Scholarship—Kristin Wright. 2009-10.
- \$1000. Kansas Arborists Association Scholarship—Nick Becker. 2010
- \$1250. Midwest Arborists Association Scholarship—Nick Becker. 2010
- \$1000. Kansas Arborists Association Scholarship—Drew Dobbeleare. 2010
- \$2000. Johnson County Master Gardener's Scholarship—Blake Moroney. 2009
- \$1000. Kansas Arborists Association Scholarship—Nick Becker. 2009
- \$1000. Kansas Arborists Association Scholarship—Zachary Castle. 2009
- \$1000. Davey Tree Scholarship—Zachary Castle. 2009
- \$1000. Davey Tree Scholarship—Amanda Thatcher. 2009
- \$1000. Dr. Ray Keen Horticulture Scholarship—Mark Beauimier. 2008
- \$1500. PLANET Moore Landscape Scholarship—Michael Salazar. 2008
- \$10,000. Toro Hispanic Horticulture Scholarship—Michael Salazar. 2007-09
- \$1000. Kansas Arborist Association—Amanda Thatcher. 2008
- \$1500. PLANET Richard J. Ott PLANET Scholarship—Matt Long. 2008
- \$1000. Western Nursery and Landscape Association Scholarship—Matt Long. 2008
- \$1000. Virginia B. Gibson (K-State Hort Dept. Scholarship)—Matt Long. 2006-08
- \$1000. Greater KC Men's Garden Club Scholarship--Matt Long. 2007-08.
 - \$1000. Kansas Associated Garden Club Scholarship—Matt Long. 2007-08
 - American Society for Horticultural Science (ASHS) Collegiate Scholars Award- Juniors and Seniors in the top 15% of class—31 advisees to date.
 - Pi Alpha Xi (PAX) Honor Society for Horticulture initiates—32 advisees to date.

Undergraduate Advising/Mentoring

- Wrote 41 letters of reference for student scholarship applications: 2018
- Visited with 10 prospective students: 2018
- Mentor/Advised Spencer Hess during Spring 2016 on a special project: *Cruciferous Microgreens Seeding Density Trails Report*.
- Currently advise 30 students
- January through July 2017 visited with 5 prospective students
- Wrote 36 letters of reference for student scholarship applications: 2017
- January through June 2016 visited with 8 prospective students
- January through June 2016: written 42 letter of reference
- Wrote 43 letters of reference for student scholarship applications: 2016
- Wrote 58 letters of reference for student scholarship applications: 2015
- Advised 35 students, 2015
- Wrote 65 letters of reference for student scholarship applications. 2014.
- Advised 31 students, 2014
- Wrote 52 letters of reference for student scholarship applications. 2013
- Advised 8 prospective students, 2013.
- Advised 8 prospective students, 2012.
- Advised 12 prospective students, 2011.
- Advised 9 prospective students, 2010.
- Hosted 25 students, Lawrence, KS Free State High School. November 2010
- Advisor, June, August Orientation and Enrollment.
- Advisor January Orientation and Enrollment.
- Advised 8 prospective students, 2010 spring and summer.
- Advised 17 prospective students, 2009 Spring, Summer and Fall.
- *Mentor* for an undergraduate Park Resource student in the “The Developing Scholars Program Faculty Research Project: Title of Project: Exploring Opinions and Experiences of Tree Care Professionals Pertaining to Tree Selection and Maintenance in the Northeastern Region of Kansas. 2006-07.
- Co-advisor and coach for the Landscape Contracting Competition team for National Collegiate Landscape Competition. 2003-current.
- Faculty Advisor: American Nursery and Landscape Assoc. (ANLA) Management Clinic, 2006-2011.
- Advisor: Mid-American Collegiate Horticultural Society (MACHS), 2005-2006
- Attend: Undergraduate advisee’s internship oral presentations, Fall semester.
- Adviser: Undergraduate KSU Horticulture Club. 2001-current.
- Faculty Advisor: ANLA Green Industry Conference: November, 2004, St. Louis, MO.

MS. Graduate Committees

- Denisse Benitez M.S. committee: 2017-2018
- Mu Hong, MS committee. 2016-2019
- Wes Haid. LA student. 2014. Balancescapes: An investigation into the effectiveness of site-scale water harvesting in St. Louis, MO. *M.S. Thesis*, Kansas State Univ., Manhattan, KS.
- Josh Chabon, 2013. Irrigation management effects on nitrate leaching and mowing requirements of tall fescue. *M.S. Thesis*, Kansas State Univ., Manhattan, KS.
- Justin Brock. 2013. Rooting stem cuttings of shantung maple (*Acer truncatum*), mound layering shantung and Caddo sugar maples (*Acer saccharum*), and using eastern red cedar (*Juniperus virginiana*) as a substrate component in stem cutting propagation. *M.S. Thesis*, Kansas State Univ., Manhattan, KS.
- Travis R. Carmichael, 2011-2013. Landscape establishment and irrigation management of ornamental plants grown in eastern red cedar substrate. *M.S. Thesis*, Kansas State Univ., Manhattan, KS.

- Dalila Maradiaga, 2011-2012. Completed