

Curriculum Vitae – February, 2008

Rolston St. Hilaire

Department of Plant and Environmental Sciences
New Mexico State University, MSC 3Q
Las Cruces, NM 88003

Ph.: 505-646-3638
Fax: 505-646-6041
rsthilai@nmsu.edu

I. Education

- 1998 Ph.D., Horticulture, Iowa State University
Specialization – Stress Physiology and Molecular Ecophysiology
- 1994 M.S., Horticulture, University of Puerto Rico, Mayagüez
Specialization – Plant Propagation
- 1992 B.S. (*Magna cum laude*), Horticulture, Univ. of Puerto Rico, Mayagüez
Option: Ornamental Horticulture
- 1985 Diploma (Honors), Agriculture, Eastern Caribbean Inst. of Agric. and For
Specialization – Agricultural Engineering

II. Additional Training

- 2005 Certified Landscape Irrigation Auditor (CLIA), Irrigation Association
- 1987 Diploma, Teaching Techniques, Humber College of Applied Arts and
Technology of Canada
- 1986 Certificate, Vegetable Production, Taiwan Agricultural Research
Institute, Taipei, Taiwan

III. Professional Experience

- 2007 - Jan. - June Visiting Scientist, Perennial Crops Laboratory, USDA-ARS, Beltsville
Area Research Center, Beltsville, Maryland.
Developed protocol for using microsatellites to determine the phylogeny
of bigtooth maples
- 2004 - present Associate Professor, Plant and Environmental Sciences (formerly
Agronomy and Horticulture, New Mexico State University (NMSU).
- 1998 - present Assistant Professor, Agronomy and Horticulture, NMSU
- 1994 - 1998 Graduate Research Assistant, Horticulture, Iowa State Univ.
Research on environmental stress physiology of hard maples.
- 1993 - 1994 Graduate Assistant, Department of Horticulture and Department of
Agricultural Mechanization, University of Puerto Rico.
- 1992 - 1993 Graduate Assistant, Department of Chemistry, University of Puerto
Rico, graduate assistant for Quim 3002 – Inorganic Chemistry.

IV. Administrative and Leadership Experience

Chair, Outstanding Undergraduate Teacher Award Committee, American Society for
Horticultural Science, elected for 2005 – 2007, reappointed chair for 2007 to 2008.

Chair, Ornamental, Landscape, and Turf Working Group of the American Society for Horticultural Science, elected for 2007 – 2009.

Member of New Mexico State University's Academic Team (2 faculty, associate dean for academic affairs and Provost) selected for "A Leadership Summit to Enhance Teaching and Learning" by **National Academy of Sciences**, 2006.

- a. Together with another faculty member, prioritized a list of recommendations that could enhance teaching in the College of agriculture at NMSU.

Director, NMSU Research and Engineering Apprenticeship Program of Army Research Laboratories, appointment 2003 – present.

- a. Recruited students and mentors to the program, managed program's budget, and reported program outcomes.

Vice-chair, (2007 - 2008), Secretary/Treasurer (2003 -2007), New Mexico Board of Landscape Architects, public member appointed by the Governor of New Mexico.

- a. Oversaw Board's budget and revised the Board's strategic plan.
- b. Chaired the Continuing Education Committee.
- c. Served as New Mexico's representative to the Council of Landscape Architecture Registration Board (CLARB).

Conference Chair, Symposium on Efficient Water Use in the Urban Landscapes

- a. Responsible for staffing, funding, and organizing symposium, 2005.

Executive Director (2007 – 2008), Metropolitan Tree Alliance, elected Assistant Executive Director in 2005.

President (2004 – 2005), Gamma Sigma Delta – NMSU Chapter.

- a. Responsible for 25th Anniversary Activities of the chapter.

Chair (2002 – 2003), International Topics of Concern to Horticulturists Working Group of the America Society for Horticultural Science.

- a. Organized workshop Horticulture for the 21st Century: Developing International Collaborations. Recruited speakers to the workshop and 110 people participated.

President (1996 – 1997), Graduate Student Organization, Iowa State University.

Vice-President (1996 – 1997), Alpha Zeta (Puerto Rico chapter) honorary agriculture society.

Secretary/Treasurer (1985 – 1988), Commonwealth of Dominica Olympic Committee.

- a. Founding secretary and assisted in the management of the membership application to the International Olympic Committee.
- b. Responsible for fundraising and financial reports.

V. Post Graduate Teaching

Teaching effort has averaged 53% since 1998. Fall 2007 load = 4 courses (13 crs.). Undergraduate advisees average 23 students per semester.

A. Courses Taught

1. HORT 200 (Fall 2007) – Special Topics/Landscape irrigation (3 crs.).
Basic principles and techniques of landscape irrigation design.

2. HORT 210 – Ornamental Plants I (4 cr.)
Identification, botanical characteristics, culture, and landscape uses of woody ornamental. Emphasis on deciduous trees, native shrubs, and evergreens.
3. HORT 211 – Ornamental Plants II (4 cr.) Identification, botanical characteristics, culture and landscape uses of plants. Emphasis on flowering trees, cacti, and members of the pea and rose families
4. HORT 308 – Landscape Construction (3 cr.)
Site grading, drainage, and construction of residential and small business landscapes.
5. HORT 307 – Landscape Design (3 cr.)
Design of residential and small commercial landscapes. Drafting, drawing, and landscape plan presentation techniques.
6. HORT 450 – Advanced Landscape Irrigation Design and Installation (3 cr.)
Principles and techniques of landscape irrigation design, installation, and auditing.
7. HORT 465 - Landscape Case Studies (3 cr.)
Application of design principles to case study problems. Use of computer-aided design and drafting to design and present landscape plans.
8. AGRO/BIO/HORT 533 – Environmental Physiology of Plants (3 cr.)
Integral responses of plants and crop productivity to naturally occurring and modified environmental factors. Laboratory practical in contemporary methods of assessing plant environmental stress.

C. Guest Lectures and Assistance in other Courses

- HORT 100 - Landscape design principles, Fall 2000, 2001.
- HORT 301 - Ornamental landscape plants, Fall 1998.
- HORT 502 - Creating a PowerPoint poster, NMSU, Fall 1999.
- HORT/EPWS 530 - Measurement and determination of chlorophyll fluorescence, Fall 2001, 2003, 2005.
- Ag in the Classroom - taught two workshops on landscape design, Summer 2000, 2002.
- BIO 314 – Vapor Pressure Osmometry lab exercise.
- HORT 447 and HORT 590 – Assessment of undergraduate and graduate student presentations.
- Medicinal Plants of the Southwest Summer 2000 Workshop – Hosted a lab session and a visiting scientist.
- Master Gardener Training, Conducted two one day training sessions on ornamental plant identification.
- Farmer Training, Conducted training sessions on vegetable production to the Water Users Association in Tashkent and Samakand, Uzbekistan

D. Teaching Innovations and Impacts

1. Developed an educational model to co-instruct two-year college and four-year university courses in a synchronous environment. St. Hilaire, R. and J. Thompson. 2005. A model to integrate a university and community college course in landscape construction. HortTechnology 15:181-185.
2. Developed two manuals on landscape plants to support plant materials classes.
3. Created an image database of plant materials to support plant materials classes.

4. Incorporated a blended approach of individual student and student team assessment in HORT/AGRO/BIOL 533.
5. Started the NMSU student chapter of the Professional Landscape Care Network (PLANET), formerly the American Landscape Contractors of America (ALCA) to support student experiential learning activities in landscape horticulture.

VI. RESEARCH

A. Theses and Dissertations Directed: Chair (4 M.S., 5 Ph.D.); Committee (7 M.S., 9 Ph.D.)

2008 - present	Bassim Essa, Ph.D.
2008 - present	Salman Al-kofahi, Ph.D.
2007- present	Malik Al-Ajlouni, Ph.D.
2005 - present	Victoria Fietze, M.S.
2002 - 2007	Clare Bowen O'Connor, Ph.D.
2001 - 2005	Emad Bsoul, Ph.D. Currently Assistant Professor, Hasemite Univ.

Dissertation 2005: Ecotypic variation in drought and salinity of bigtooth maples

2000 - 2003 Cathleen Feser, M.S.
Thesis 2003: Plant water relations, evapotranspiration, and development traits of Mexican elder plants subjected to various irrigation regimes.

1999 - 2002 Jane Spinti, M.S.
Thesis 2002: Balancing landscape preferences and water use in a desert environment.

1998 - 2000 Balok, M.S.
Thesis 2000: Water deficit stress responses of seven trees used in Southwestern landscapes.

B. Selected Research Impacts

1. Laboratory was the first to micropropagate bigtooth maples and develop a broad micropropagation protocol for all hard maples.
Bowen-O'Connor, C.A., R. St. Hilaire, J. Hubstenberger, C.A. Baca, and D.M. VanLeeuwen. 2007. *In vitro* propagation of *Acer grandidentatum* Nutt. *In vitro* Cellular and Developmental Biol. 43: 40-50. *This paper and our lab were highlighted in In Vitro Report. 2007. 42:1.*
2. Proposed a new way to analyze asynchronous drought data.
VanLeeuwen, D., R. St. Hilaire, and E. Bsoul. 2006. Statistical analysis of mixed model factorial experiment with missing factor combinations: The case of asynchronous cyclic drought data. *J. Amer. Soc. Hort. Sci.* 131: 201-208. *At the end of June 2006, this paper was the third most accessed in this journal.*
3. Determined that significant provenances differences in drought responses occur in bigtooth maples indigenous to a wide geographic range.
Bsoul, E., R. St. Hilaire, and D. VanLeeuwen. 2006. Bigtooth maples exposed to asynchronous cyclic irrigation show provenance differences in drought adaptation mechanisms. *J. Amer. Soc. Hort. Sci.* 131:459-468.
4. Showed that water shortage is the most important factor that will cause residential homeowners in Las Cruces to conserve water.
Spinti, J.E., R. St. Hilaire and D. VanLeeuwen. 2004. Balancing landscape preferences and water conservation in a desert environment. *HortTechnology* 14:72-77.

5. Determined that hormone-treated single-node tip cuttings are just as effective as untreated longer cuttings in the nursery production of catnip plants.

St. Hilaire, R. 2003. Propagation of catnip by terminal and single-node cuttings. *J. Environ. Hort.* 21:20-23. This paper has been cited in many medicinal plant publications.

VII. Grants (\$648,220)

St. Hilaire, R. 2007-2009. Demonstrating efficient landscape irrigation in a desert environment through smart water application technology. Desert Sense Development. \$15,560.

St. Hilaire, R., J. Thompson, and P. Zalesak. 2006 – 2008. A multi-institutional model to enhance irrigation teaching and training. USDA-CSREES. \$290,000.

St. Hilaire, R. 2006. Travel Grant to attend USDA-CSREES Competitive Funding Opportunities and the Writing Winning Grants Workshops in Washington, DC., Sept. 6-7, 2006, Univ. of Maryland. \$500.

Sammis, T.W., R. St. Hilaire, V. Gutschick, and J. Wang. 2006 – 2007. An integrated reproduction management model to optimize bearing in pecans. USDA-ARS Pecan improvement project. \$38,903.

St. Hilaire, R. 2006 - 2007. A multimedia resource for urban landscape water conservation-NMSU Rio Grande Irrigation Project thru Texas A&M Agr. Expt. Sta., \$10,000.

St. Hilaire, R. and C.W. Smith. An integrated approach to demonstrating water-conserving landscapes plants-NMSU Rio Grande Irrigation Project thru Texas A&M Agr. Expt. Sta., 2004 – 2006. \$10,000.

St. Hilaire, R. and J. Thompson. 2002-2005. Client-based, collaborative and experiential learning projects: a model to improve minority participation in landscape horticulture, USDA-CSREES. \$115,831.

St. Hilaire, R. and C.W. Smith. Determining landscape choices, plant water use and minimum irrigation requirements in the urban environment, Rio Grande Initiative-Efficient Irrigation for Water Conservation in the Rio 2001 – 2003. \$53,347.

St. Hilaire, R. Minority Biomedical Research Support/Research Initiative for Scientific Enhancement (MBRS/RISE)-NMSU 2000-2003 - \$14,000 for student support.

St. Hilaire, R. Physiological responses of two woody plants and two turf grasses grown in soil amendments, project funded by Watch-IT-Grow, Inc., 2001-2003. \$11,469.

St. Hilaire, R. Ecophysiological basis for the landscape use of *Acer grandidentatum* -Landscape Plant Development Center, 2002-2003. \$1,000.

St. Hilaire, R. Research and Engineering Apprenticeship Program, Army Research Office, 2003 - 2007. \$36,200.00

St. Hilaire, R. An integrated approach to demonstrating water-conserving landscapes plants-NMSU Rio Grande Irrigation Project thru Texas A&M Agr. Expt. Sta., 2004 – 2006. \$25,000.

St. Hilaire, R. 1999 - 2003. Improving intergenerational mentoring through real-world

landscape projects, Paso Del Norte Health Foundation, \$26,250.

St. Hilaire, R. 1999. A Landscape Inventory of the Parks in the city of Las Cruces, Service Learning of Southern New Mexico, \$160.

VIII. PUBLICATIONS (70 publications)

Summary: 18 journal articles, 1 book (in production), 1 book chapter, 4 symposia proceedings, 3 research and extension publications, 7 semi-technical publications, and 36 published abstracts.

A. Refereed Journal Articles

Submitted: Khalil, S.D., R. St. Hilaire, M. O'Connell and J. Mexal. 200x. Horticulturists can grow moonshine yarrow on a limited moisture budget, submitted to J. Environ. Hort.

Submitted: Bowen-O'Connor, C.A. Killough, D.M. VanLeeuwen and R. St. Hilaire. 200x. Microshoot proliferation and ex vitro growth and development of bigtooth maples, submitted to J. Plt. Growth Regulat.

18. Bsoul, E., R. St. Hilaire, and D. VanLeeuwen. 2007. Bigtooth maples from selected provenances effectively endure deficit irrigation. Hortscience: 42:1167-1173.
17. Bowen-O'Connor, C.A., R. St. Hilaire, J. Hubstenberger, C.A. Baca, and D.M. VanLeeuwen. 2007. *In vitro* propagation of *Acer grandidentatum* Nutt. *In vitro* Cellular and Developmental Biol. 43: 50-60. **Journal highlight article.**
16. Hurd, B., R. St. Hilaire, and J. White. 2006. Residential landscapes, homeowner attitudes and water-wise choices in New Mexico. HortTechnology 16: 241-246. **Spotlight article.**
15. Bsoul, E., R. St. Hilaire, and D. VanLeeuwen. 2006. Bigtooth maples exposed to asynchronous cyclic irrigation show provenance differences in drought adaptation mechanisms. J. Amer. Soc. Hort. Sci. 131:459-468.
14. VanLeeuwen, D., R. St. Hilaire and E. Bsoul. 2006. Statistical analysis of mixed model factorial experiment with missing factor combinations: The case of asynchronous cyclic drought data. J. Amer. Soc. Hort. Sci. 131: 201-208.
13. St. Hilaire, R. and J. Thompson. 2005. A model to integrate a university and community college course in landscape construction. HortTechnology 15:181-185.
12. Feser, C.F., R. St. Hilaire, and D. VanLeeuwen. 2005. Development of in-ground container plants of Mexican elders exposed to drought. HortScience 40:446-450.
11. Spinti, J.E., R. St. Hilaire, and D. VanLeeuwen. 2004. Balancing landscape preferences and water conservation in a desert environment. HortTechnology 14:72-77.
10. St. Hilaire, R., C.F. Feser, T.W. Sammis, and A.S. St. Hilaire. 2003. A system to measure evapotranspiration of in-ground container plants of mexican elder. HortTechnology 13:185-189.
9. St. Hilaire, R. 2003. Propagation of *Taxodium mucronatum* from Softwood Cuttings. Desert Plants 19:29-30.
8. St. Hilaire, R. 2003. Propagation of catnip by terminal and single-node cuttings. J. Environ. Hort. 21:20-23.
7. Balok, C.A. and R. St. Hilaire. 2002. Drought responses among seven southwestern tree taxa. J. Amer. Soc. Hort. Sci. 127:211-218.
6. St. Hilaire, R., W.R. Graves, and R.L. Small 2001. Variation in *TaqI*-digested DNA of sugar and black maples is independent of taxon and plant origin. HortScience 36:1327-1328.
5. St. Hilaire, R. 2001. Seed coat treatments influence germination of *Taxodium mucronatum*. Desert Plants 17:15-18. **Cover article.**
4. St. Hilaire, R. and W.R. Graves. 2001. Stability of provenance differences during development of hard maple seedlings irrigated at two frequencies. HortScience 36:654-657.

3. St. Hilaire, R. and C.A. Fierro. 2000. Three cultivars of *Mussaenda* exhibit rooting in response to hormone and rooting conditions. *HortTechnology* 10:780-784. **Spotlight article.**
2. St. Hilaire, R. and W.R. Graves. 1999. Foliar traits of sugar maples and black maples near 43°N latitude in eastern and central United States. *J. Amer. Soc. Hort. Sci.* 124:605-611.
1. St. Hilaire, R., C.A. Fierro Berwart, and C.A. Pérez-Muñoz. 1996. Adventitious root formation and development in cuttings of *Mussaenda erythrophylla* (L.) Schum. & Thonn. *HortScience* 31:1023-1025.

B. Books and Book Chapter

2. St. Hilaire, R. 200x. *Landscape Plants for the Rio Grande Basin*, Expected Dec. 2007.
1. Smith, C.S. and R. St. Hilaire. 1999. Xeriscaping in the urban environment. p. 241-250 *In*: E. H. Herrera and J.G. Mexal (eds.). *Ensuring Sustainable Development of Arid Lands*. New Mexico J. Sci. Vol: 38.

C. Symposia Proceedings

4. St. Hilaire, R., E. Bsoul, and C. Bowen-O'Connor. 2005. Ecophysiology and micropropagation of bigtooth maples: Proceedings of the Metropolitan Tree Improvement Alliance Symposium: Increasing Tree Diversity for Sustainable Urban Forests, June 19-21, 2004, Lisle, Illinois.
<http://www.ces.ncsu.edu/fletcher/programs/nursery/metria/metria13/hilaire/index.html>, accessed Mar. 8, 2005.
3. Spinti, J.E., R. St. Hilaire, and D. Vanleeuwen, 2004. Balancing landscape preferences and water use in a desert environment. *Acta Hort.* 639:129-135.
2. St. Hilaire, R., Hockman, A.W. and S.M. Chavez. 2004. Propagation and irrigation affect the development of catnip. *Acta Hort.* 629:321-327.
1. Graves, W.R. and R. St. Hilaire. 2000. Variation in leaves and roots of sugar maple and its allies: A key to improve performance of trees in the landscape? Proceedings of the Metropolitan Tree Improvement Alliance, August 23-24, Gresham, Ore.

D. Research Reports and Extension Publications

3. Smith, C.W., J. White, J. Mexal and R. St. Hilaire. 2005. *Selecting ornamental trees for New Mexico*. Extension Guide H-328, New Mexico State Univ., Las Cruces.
2. St. Hilaire, R. and C. S. Smith. 2003. Determining landscape choices, plant water use and minimum irrigation requirements in the urban environment. *Water Task Force Publication No. 1*, New Mexico State Univ., Las Cruces, p. 25-29.
1. St. Hilaire, R., J.E. Spinti, D. VanLeeuwen and C. Smith. 2003. Landscape preferences and attitudes toward water conservation: A public opinion survey of homeowners in Las Cruces, New Mexico. *NM Agric. Expt. Sta. Research Report 750*. 14 pp.

E. Semi-technical Publications

7. Bowen-O'Connor, C. and R. St. Hilaire. 2004. In vitro shoot development of bigtooth maple *Landscape Plant News* 15:1-4.
6. St. Hilaire, R. 2004. The marvelous Texas madrone. *Southwest Trees and Turf*. 10:9.
5. St. Hilaire, R. 2003. Teaching landscape construction: A new model for instruction. *Stage Route News, Agronomy and Horticulture Newsletter*, May 2003, Issue 3, page 4.
4. St. Hilaire, R. 2003. Effective teaching - A professor's view. *Hort Alumni Newsletter* 9:4.
3. St. Hilaire, R. 2002. Bigtooth maple: A plant that merits more use in Southwestern landscapes. *Landscape Plant News* 13:10-11.
2. St. Hilaire, R. 2001. Identifying landscape trees for New Mexico's drought conditions. *Landscape Plant News* 12: 7-8.
1. St. Hilaire, R. 1999. Texas Madrone (*Arbutus texana* Buckl.): A native plant that merits

more attention. Native Plant Society of New Mexico Newsletter. 14: 4.

F. Published Abstracts

36. Fritze, V. and R. St. Hilaire. 2007. Developing a system to compare water use of contrasting managed landscapes. HortScience 42: 1002.
35. Bsoul, E. and R. St. Hilaire. 2007. Bigtooth maples from selected provenances can cope with short-term root zone salinity. HortScience 42: 993.
34. Bowen-O'Connor, C., C. Killough, G. Bateman, and R. St. Hilaire. 2007. Foliar pigment content and antioxidant capacity of bigtooth maples indigenous to a wide geographic region. HortScience 42: 977.
33. Bowen-O'Connor, C., C. Killough, D. Van Leeuwen, and R. St. Hilaire. 2007. Acclimation and development of bigtooth maple microshoots rooted *ex vitro* HortScience 42: 942.
32. Bowen-O'Connor, C., C. Killough, D. Van Leeuwen, and R. St. Hilaire. 2007. Using amino-purine cytokinins to optimize microshoot production of bigtooth maples. HortScience 42: 941.
31. St. Hilaire, R., J.M. Thompson and P.Z. Zalesak. 2006. A model to enhance the transition of students from a two-year college to a four-year university: The case of landscape horticulture. Program of a leadership summit to effect change in teaching in learning by the National Academy of Science, page 5.
30. Bowen-O'Connor, C., J. Hubstenberger, D. Van Leeuwen, and R. St. Hilaire. 2005. In vitro micropropagation of bigtooth maple. Abstracts P-3026 of the *In Vitro* Biology Meeting, Baltimore, Maryland, page 11.
29. Bowen-O'Connor, C., J. Hubstenberger, D. VanLeeuwen, and R. St. Hilaire. 2005. *In vitro* rooting of bigtooth maples. HortScience 40: 1081.
28. St. Hilaire, R. and J. Thompson. 2005. A model to enhance minority education in landscape horticulture. Program of the USDA-CSREES Project Directors' Conference – Enhancing Partnership and Integration of food and agricultural sciences, Mar. 30 – Apr. 1, 2005, New Orleans, Louisiana.
27. St. Hilaire, R. 2004. Partnering with two-year colleges: Implications for horticulture science education. <http://spacegrant.nmsu.edu/NMSU/2004/sthilaire.pdf>. 1/10/2004.
26. Bowen-O'Connor, C.A, R. St. Hilaire, J. Hubstenberger, and D. VanLeeuwen. 2004. Enhanced axillary branching and pigment development of double-node explants of bigtooth maple. HortScience 39:755.
25. St. Hilaire, R. and J.M. Thompson. 2003. Designing a Landscape Horticulture Class for Community College and University Students. Proceedings of the Western Region Teaching Conference: Mountains and Minds.
24. St. Hilaire, R. and J. Thompson. 2003. A model to integrate university and community college curricula. HortScience 38: 694.
23. Willeto, L. and R. St. Hilaire. 2003. Seedling traits of bigtooth maples indigenous to the southwestern United States. HortScience 38: 814.

22. Bsoul, E. and R. St. Hilaire. 2003. Drought tolerance determined for bigtooth maples indigenous to the Southwest. *HortScience* 38: 811-812.
21. Feser, C., R. St. Hilaire, and D. VanLeeuwen. 2003. Evapotranspiration and crop coefficients determined for in-ground container plants of Mexican elder. *HortScience* 38:812.
20. Feser, C., and R. St. Hilaire. 2003. Drought tolerance of Mexican elder grown in an arid environment. *HortScience* 38: 816.
19. Willeto, L. and R. St. Hilaire. 2003. Variation in anatomy and physiology of *Acer grandidentatum*, 8th Annual Undergraduate Research and Creative Arts Symposium, New Mexico State University, Las Cruces, NM, April 25, 2003, page 35.
18. Willeto, L. and R. St. Hilaire. 2002. Ecophysiology of bigtooth maple indigenous to four southwestern states. Program of the 2002 national conference of the Society for the advancement of Chicanos and Native Americans in Science, pg 184-185.
17. Feser, C., St. Hilaire, R., and D. Van Leeuwen. 2002. Pot-in-pot field experiment determines water use and drought tolerance of mexican elder. New Mexico Water Research Symposium, Socorro, New Mexico, August 13, 2002, page F10.
16. Spinti, J.E. and R. St. Hilaire. 2002. Balancing landscape choices and water use in a desert environment. Program of the XXXVIth International Horticultural Congress, Toronto, page 217.
15. Hockman, A.W., S. M. Chavez, E. Aguilar, and R. St. Hilaire. 2002. Influence of propagation and irrigation regime on the development of catnip. Program of the XXXVIth International Horticultural Congress, Toronto, Canada, page 193.
14. Hockman, A.W. and R. St. Hilaire. 2002. Differences in physiology, anatomy, and growth of catnip plants subject to water deficit stress. Program of the New Mexico State University seventh annual undergraduate research and creative art symposium, page 21.
13. Aguilar, E., A. Hockman, and R. St. Hilaire. 2001. Variations in anatomical and growth traits of catnip subjected to drought. Program of the 2001 national conference of the Society for the advancement of Chicanos and Native Americans in Science, pg 148.
12. Hockman, A.W., S. Chavez, E. Aguilar, and R. St. Hilaire. 2001. Water deficit stress affects physiological, anatomical, and growth traits of *Nepeta cataria* L. <http://www.botany2001.org/section15/abstracts/28.shtml> (15 Aug. 2001).
11. Balok, C.A. and R. St. Hilaire. 2000. Water deficit stress responses of seven tree species used in urban landscapes. *HortScience* 35:414.
10. St. Hilaire, R. 1999. Propagation of *Taxodium Mucronatum* (Montezuma Cypress). *HortScience* 34:459.
9. St. Hilaire, R. 1999. An internet course tool for teaching landscape horticulture courses. *HortScience* 34:470.
8. St. Hilaire, R. and W.R. Graves. 1998. Regional differences in plant development, water relations, and chloroplast DNA of hard maples. *HortScience* 33:456.
7. St. Hilaire, R. and W.R. Graves. 1998. Geographical differences in drought responses of hard maples native to Iowa and the eastern United States. Program of the 110th Session of the Iowa Academy of Science, page 2.
6. St. Hilaire, R. and W.R. Graves. 1997. Morphological and anatomical traits of Iowa's hard maples. Program of the 109th Session of the Iowa Academy of Science, page 8.
5. St. Hilaire, R. and W.R. Graves. 1997. Foliar morphology and anatomy hard maple leaves vary with geographic origin. *HortScience* 32:507.
4. St. Hilaire, R. and C.A. Fierro Berwart. 1996. Anatomy of adventitious root formation and development in stem cuttings of *Mussaenda erythrophylla* L. *HortScience* 31:634
3. St. Hilaire, R. and W. R. Graves. 1996. Foliar variation of hard maples indigenous near the 43°N latitude from Iowa to Maine. *HortScience* 31:660-661.
2. St. Hilaire, R. and W.R. Graves. 1996. Variation of hard maple leaves in the Midwestern and eastern United States. Program of the 108th Session of the Iowa Academy of Science, page 1.

1. St. Hilaire, R. and W.R. Graves. 1996. Variation of hard maple leaves in the Midwestern and eastern United States: Implications for landscape tree selection. Symposium on landscape plants - Exploration, Breeding, Evaluation, Minneapolis, MN, June 28-29, 1996, page 3.

IX. Oral and Poster Presentations (non-abstracted)

15. Let's talk teaching, Teaching Academy, NMSU, October 23, 2006 (invited).
14. Efficient water use in the urban landscape, Southwest Turfgrass Association Annual Conference, Ruidoso, New Mexico, October 11.
13. A Multi-institutional educational model to enhance irrigation teaching and training, USDA Project director's conference, Washington, DC, Sept. 3, 2006.
12. *In vitro* shoot proliferation and root induction of bigtooth maples, Graduate Research and Arts Symposium, New Mexico State University, Las Cruces April 15, 2005.
11. Urban Landscape Water Conservation Projects at New Mexico State University. Joint Rio Grande Basin Initiative Annual Conference, Sul Ross State Univ., Alpine, Texas, April 12, 2005.
10. Landscape roses. Las Cruces Master Gardeners, Las Cruces, NM, February 16, 2005.
9. Ecophysiology and micropropagation of bigtooth maples. Metropolitan Tree Alliance and the Landscape Plant Development Center Joint Annual Conference, Lisle, Illinois, June 18, 2004.
8. Protecting trees during construction. 12th Annual Desert Horticulture conference, Tuscon, Arizona, 2003 (invited).
7. Determining water use and drought tolerance of landscape trees in an arid environment. Think Trees Conference, Albuquerque, New Mexico, 2003 (invited).
6. NMSU research, water use in landscape plants, 2002 New Mexico Master Gardener Conference, Albuquerque, New Mexico. (invited).
5. Trees & Construction, Sun Country Tree Conference, El Paso Texas, 2001 (invited).
4. Best plants for New Mexico, AARP, Las Cruces, New Mexico, May 17, 2000.
3. How Plants survive the desert, Alameda Elementary School, Las Cruces, New Mexico, March 3, 1999 (invited).
2. Landscape design concept for Historic Mesquite, Las Esperanzas Public Meeting, Las Cruces, New Mexico, August 28, 1999 (invited).
1. Economical landscaping for the new home owner, Habitat for Humanity Volunteer Program, Las Cruces, New Mexico (invited), 1998.

X. Service

- A. Membership in National, Regional, and State Boards, Committees, and Organizations
 - i. New Mexico State Board of Landscape Architects (state).
 - ii. Western Coordinating Committee-WERA58 (Production, transition handling, and reestablishment of perennial nursery stock) (Regional).
 - iii. Metropolitan Tree Alliance Association (National).
- B. Participation in University, College and Departmental Committees (NMSU)
 - i. Advisory Board for Teaching Academy (University).
 - ii. Student Appeals, Recruitment and Retention (college).
 - iii. Direct Assessment of Learning, Graduate Teaching Assistantship, Scholarship (chair 2006-2007), Search Committees (five) (departmental).
 - iv. Advisor to the NMSU Student chapter of the Professional Landcare Network (PLANET).
 - v. Responsible for undergraduate Academic advising of department student athletes.
- C. National Service to Professional Organizations
 1. Grant review panelist for Corporation for National Service, Washington, D.C.

2. Grant review panelist for 1890 Capacity Building Grants Program, USDA-CSREES.
3. Peer reviewer for the journals, HortTechnology, HortScience, Journal of the American Society for Horticultural Science (J. Amer. Soc. Hort. Sci.), Journal of Plant Foods.
4. **Consulting Editor** for Environmental Stress Physiology for the J. Amer. Soc. Hort. Sci.

XI. Awards and Honors

8. 2007. Faculty Appreciation Award – Dept. of Plant and Environmental Sci., NMSU.
7. 2006. Distinguished Award for Graduate Teaching/Advisement - Gamma Sigma Delta.
6. 2006. Leadership and Dedication Award – Planning Committee of the 1st symposium on efficient water use in the urban environment.
5. 2005. Faculty Team Research Award for the College of Ag. and Home Economics, NMSU.
4. 2002. Faculty Teaching Award for the College of Agriculture and Home Economics, NMSU.
3. 2001. Patricia Christmore Faculty Teaching Award, (university-wide award for junior faculty excellence in Teaching), NMSU.
2. 2001. First place poster presentation, Chavez, S. and R. St. Hilaire, Adventitious rooting and development of terminal and single-node cuttings of *Nepeta cataria* L., NMSU Graduate Research and Arts Symposium, April 27.
1. 1997. Campus Leadership Award, Iowa State University.

XII. Academic Distinctions

10. 1992. Ralph S. Garwood Award (Top of the class), Univ. Puerto Rico.
9. 1988. Caribbean Scholarship Award (B.S. and M.S.) – Competitive Caribbean-wide award.
8. 1985. Proficiency Award in Farm Practicals, E. C. I. A. F.
7. 1985. Caroni Prize, E.C. I. A. F.
6. 1984. Agricultural Development Bank Prize, E. C. I. A. F.
5. 1984. Federation Chemicals Prize, E. C. I. A. F.
4. 1984. Director's Prize, E. C. I. A. F.
3. 1984. Barbados General Agricultural Society Prize, E. C. I.A.F.
2. 1984. Student of the Year Award, E.C.I.A.F. (Eastern Caribbean Inst. Agric. For.)
1. 1983. Canadian International Development Agency Full Scholarship.