

CURRICULUM VITAE

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PERSONAL INFORMATION

Born: Greencastle, PA

Spouse: Dr. Siti N. Hidayati (plant ecologist, tropical biologist). Adjunct Professor, Middle Tennessee State University & Docent, Universitas Bengkulu, Indonesia

EDUCATION

B.S. (Biology) with Honors (May 1989), Cornell University, Ithaca, NY

Honors Thesis: "Life history and population dynamics of the rare shale barren ragwort (*Senecio antennariifolius*) in south-central Pennsylvania." 20 pp. Directed by Dr. Peter Marks.

Ph.D. in Biology (May 1998), University of Kentucky, Lexington, KY

Dissertation: "Comparative autecology of the narrow-endemic *Solidago shortii* and two of its geographically-widespread congeners: an investigation into the causes of plant rarity and endemism." 444 pp. Directed by Drs. Jerry and Carol Baskin.

POSITIONS

1998–99	Postdoctoral Fellow	Department of Evolution, Ecology & Organismal Biology Ohio State University
1999–04	Assistant Professor	Department of Biology Middle Tennessee State University
2003–present	Co-Director	Center for Cedar Glade Studies Middle Tennessee State University
2004–present	Associate Professor	Department of Biology Middle Tennessee State University

AWARDS & HONORS

- Best Student Paper Award, Ecological Section, Botanical Society of America (1993)
- Biology Graduate Student Research Award, University of Kentucky (1997)
- T.H. Morgan Distinguished Dissertation Award, University of Kentucky (1998)
- Recognized for “Making a Difference in Lives of Students,” Middle Tennessee State University (2002, 03, 04)
- Distinguished Research Award, Middle Tennessee State University (2005)

RESEARCH FUNDING

External

04/87 – 08/87	Pennsylvania Department of Environmental Resources Population dynamics of <i>Senecio antennariifolius</i> in Pennsylvania	\$ 250.00
10/92 – 12/93	Kentucky State Nature Preserves Commission A management study of Short’s goldenrod (<i>Solidago shortii</i> T. & G.)	\$ 2,000.00
11/94 – 09/96	Kentucky Academy of Science Seed dormancy in three <i>Solidago</i> species	\$ 1,000.00
03/00 – 06/02	Center for Field Biology, Austin Peay State University Germination ecology studies on glade/forest plants of Tennessee	\$ 5,500.00
01/02 – 12/02	Tennessee Division of Natural Heritage Soil seed bank ecology of Spring Creek bladderpod	\$ 5,500.00
03/06 – 12/06	Tennessee Division of Natural Heritage Demographic monitoring of Pyne’s ground-plum (<i>Astragalus bibullatus</i>)	\$ 3,500.00
09/05 – 08/07	EPA STAR Grant [co-PIs: K. Sadler, C. Smith-Walters, T. Hemmerly] Establishment of a ‘Center for Cedar Glade Studies’	\$ 193,900.00
08/04 – 12/07	NPS Cooperative Conservation Initiative [co-PI: W. Anderson] Chinese yam eradication and site restoration	\$ 53,165.00

Internal – Middle Tennessee State University

05/00 – 08/00	Summer Research Grant Comparative ecology of cedar glade endemic and weedy plant species	\$ 4,615.00
08/01 – 10/02	Academic Year Research Grant Seed ecology of an exotic and a native shrub	\$ 7,530.00
05/03 – 08/03	Summer Research Grant Conservation biology of two rare bladderpods endemic to Tennessee	\$ 5,137.00
01/06 – 06/08	Research Enhancement Program [as co-PI] Development of a Ph.D. Program in Integrative Life Sciences	\$ 349,810.00

PUBLICATIONS [Authored with undergraduate (*) or graduate (†) student]

Invited Refereed Papers or Book Chapters

1. 1993 KLOTZ, L.H. & J.L. WALCK. Rare vascular plants associated with limestone in southwestern Franklin County, Pennsylvania. **Bartonia**, Supplement to No. 57: 16-41.
2. 1997 BASKIN, J.M., K.M. SNYDER, J.L. WALCK & C.C. BASKIN. The comparative autecology of endemic, globally-rare, and geographically-widespread, common plant species: three case studies. **Southwestern Naturalist** 42: 384-399.
3. 2000 BASKIN, J.M., J.L. WALCK, C.C. BASKIN & D.E. BUCHELE. Ecology and conservation biology of the endangered plant species *Solidago shortii* (Asteraceae). **Native Plants Journal** 1: 35-41.
4. 2001 HIDAYATI, S.N. & J.L. WALCK. *Rafflesia patma* in the Pangandaran Nature Reserve, Java. Pp. 38-39 *In* J. Nais. **Rafflesia of the world**. Sabah Parks, Kota Kinabalu, Sabah, Malaysia.
5. 2002 WALCK, J.L., T.L. HEMMERLY & S.N. HIDAYATI. The endangered Tennessee purple coneflower, *Echinacea tennesseensis* (Asteraceae): its ecology and conservation. **Native Plants Journal** 3: 54-64.
6. 2006 †FITCH, E.A., J.L. WALCK & S.N. HIDAYATI. Temporal fulfillment of the light requirement for seed germination: an example of its use in management of rare species. Pp. 365-373 *in* **Seeds: Biology, Development and Ecology**. Edited by S. Navie, S. Adkins & S. Ashmore. CAB International, Wallingford, UK. In press.

Regular Refereed Submissions

7. 1987 WALCK, J.L. Shale barren ragwort (*Senecio antennariifolius*, Asteraceae) in the Great Valley, Franklin County, Pennsylvania. **Bartonia** No. 53: 13-14.
8. 1988 WALCK, J.L. & T.L. SMITH. Upright primrose-willow (*Ludwigia decurrens*, Onagraceae) in Pennsylvania. **Bartonia** No. 54: 24-25.
9. 1990 KLOTZ, L.H. & J.L. WALCK. Pennsylvania records of large-leaved waterleaf *Hydrophyllum macrophyllum*, Hydrophyllaceae). **Bartonia** No. 56: 29-33.
10. 1994 WALCK, J.L. A contribution to the ecological life history of *Senecio antennariifolius*. **Castanea** 59: 1-11.
11. 1996 WALCK, J.L. Distribution, life forms, taxonomic categories, and habitats of the endangered and threatened vascular plants in Pennsylvania: a summary. **Bartonia** No. 59: 49-54.
12. 1996 WALCK, J.L., J.M. BASKIN, C.C. BASKIN & S.W. FRANCIS. Sandstone rockhouses of the eastern United States, with particular reference to the ecology and evolution of the endemic plant taxa. **Botanical Review** 62: 311-362.

13. 1997 WALCK, J.L., C.C. BASKIN & J.M. BASKIN. Comparative achene germination requirements of the rockhouse endemic *Ageratina luciae-brauniae* and its widespread close relative *A. altissima*. **American Midland Naturalist** 137: 1-12.
14. 1997 WALCK, J.L., J.M. BASKIN & C.C. BASKIN. A comparative study of the seed germination biology of a narrow endemic and two geographically-widespread species of *Solidago* (Asteraceae). 1. Germination phenology and effect of cold stratification on germination. **Seed Science Research** 7: 47-58.
15. 1997 WALCK, J.L., J.M. BASKIN & C.C. BASKIN. A comparative study of the seed germination biology of a narrow endemic and two geographically-widespread species of *Solidago* (Asteraceae). 2. Germination responses of buried seeds in relation to seasonal temperature cycles. **Seed Science Research** 7: 209-220.
16. 1997 WALCK, J.L., J.M. BASKIN & C.C. BASKIN. A comparative study of the seed germination biology of a narrow endemic and two geographically-widespread species of *Solidago* (Asteraceae). 3. Photoecology of germination. **Seed Science Research** 7: 293-301.
17. 1997 WALCK, J.L., J.M. BASKIN & C.C. BASKIN. A comparative study of the seed germination biology of a narrow endemic and two geographically-widespread species of *Solidago* (Asteraceae). 4. Role of soil moisture in regulating germination. **Seed Science Research** 7: 303-309.
18. 1997 WALCK, J.L., J.M. BASKIN & C.C. BASKIN. A comparative study of the seed germination biology of a narrow endemic and two geographically-widespread species of *Solidago* (Asteraceae). 5. Effect of dry storage on after-ripening and survivorship. **Seed Science Research** 7: 311-318.
19. 1998 WALCK, J.L., J.M. BASKIN & C.C. BASKIN. A comparative study of the seed germination biology of a narrow endemic and two geographically-widespread species of *Solidago* (Asteraceae). 6. Seed bank. **Seed Science Research** 8: 65-74.
20. 1999 WALCK, J.L., J.M. BASKIN & C.C. BASKIN. Effects of competition from introduced plants on establishment, survival, growth and reproduction of the rare plant *Solidago shortii* (Asteraceae). **Biological Conservation** 88: 213-219.
21. 1999 WALCK, J.L., J.M. BASKIN & C.C. BASKIN. Ecology of the endangered species *Solidago shortii*. VI. Effects of habitat type, leaf litter, and soil type on seed germination. **Journal of the Torrey Botanical Society** 126: 117-123.
22. 1999 WALCK, J.L., J.M. BASKIN & C.C. BASKIN. Ecology of the endangered species *Solidago shortii*. VII. Survivorship and flowering, and comparison with common, geographically-widespread *Solidago* species. **Journal of the Torrey Botanical Society** 126: 124-132.
23. 1999 WALCK, J.L., J.M. BASKIN & C.C. BASKIN. Relative competitive abilities and growth characteristics of a narrowly endemic and a geographically widespread *Solidago* species (Asteraceae). **American Journal of Botany** 86: 820-828.

24. 1999 WALCK, J.L., J.M. BASKIN & C.C. BASKIN. Roles of succession, light, nutrients and disturbance on population vigor and maintenance of the rare plant *Solidago shortii* (Asteraceae). **Plant Ecology** 145: 133-147.
25. 1999 WALCK, J.L., C.C. BASKIN & J.M. BASKIN. Seeds of *Thalictrum mirabile* (Ranunculaceae) require cold stratification for loss of nondeep simple morphophysiological dormancy. **Canadian Journal of Botany** 77: 1769-1776.
26. 2000 WALCK, J.L. Chromosome number of the sandstone rockhouse endemic *Thalictrum mirabile* (Ranunculaceae), and clarification of its endemism. **Journal of the Kentucky Academy of Science** 61: 62-63.
27. 2000 HIDAYATI, S.N., W. MEIJER, J.M. BASKIN & J.L. WALCK. A contribution to the life history of the rare Indonesian holoparasite *Rafflesia patma* (Rafflesiaceae). **Biotropica** 32: 408-414.
28. 2000 WALCK, J.L., J.M. BASKIN & C.C. BASKIN. Increased sensitivity to green light during transition from conditional dormancy to nondormancy in seeds of three species of *Solidago* (Asteraceae). **Seed Science Research** 10: 495-499.
29. 2001 WALCK, J.L., J.M. BASKIN & C.C. BASKIN. Why is *Solidago shortii* narrowly endemic and *S. altissima* geographically widespread? A comprehensive comparative study of biological traits. **Journal of Biogeography** 28: 1221-1237.
30. 2002 WALCK, J.L., S.N. HIDAYATI & N. OKAGAMI. Seed germination ecophysiology of the Asian species *Osmorhiza aristata* (Apiaceae): comparison with its North American congeners and implications for evolution of types of dormancy. **American Journal of Botany** 89: 829-835.
31. 2002 WEN, J., P.P. LOWRY II, J.L. WALCK & K.-O. YOO. Phylogenetic and biogeographic diversifications in *Osmorhiza* (Apiaceae). **Annals of the Missouri Botanical Garden** 89: 414-428.
32. 2002 †MORRIS, L.L., J.L. WALCK & S.N. HIDAYATI. Growth and reproduction of the invasive *Ligustrum sinense* and native *Forestiera ligustrina* (Oleaceae): implications for the invasion and persistence of a non-native shrub. **International Journal of Plant Sciences** 163: 1001-1010.
33. 2002 HIDAYATI, S.N. & J.L. WALCK. Contrasting seed germination patterns for intracontinental disjuncts of *Heuchera* (Saxifragaceae) in North America: the eastern temperate *H. parviflora* and the western montane *H. cylindrica*. **Canadian Journal of Botany** 80: 1185-1192.
34. 2004 †MYERS, B.R., J.L. WALCK & K.E. BLUM. Vegetation change in a former chestnut stand on the Cumberland Plateau of Tennessee during an 80-year period (1921-2000). **Castanea** 69: 81-91.
35. 2004 WALCK, J.L. & S.N. HIDAYATI. Germination ecophysiology of the western North American species *Osmorhiza depauperata* (Apiaceae): implications for preadaptation and phylogenetic niche conservatism in seed dormancy evolution. **Seed Science Research** 14: 387-394.

36. 2004 WALCK, J.L. & S.N. HIDAYATI. Differences in light and temperature responses determine autumn versus spring germination for seeds of *Schoenolirion croceum*. **Canadian Journal of Botany** 82: 1429-1437.
37. 2004 †WELCH, L., J.L. WALCK & K.E. BLUM. Assessment of species for landscape management of archaeological sites in middle Tennessee. **Journal of the Tennessee Academy of Science** 79: 13-17.
38. 2005 KARLSSON, L.M., S.N. HIDAYATI, J.L. WALCK & P. MILBERG. Complex combination of seed dormancy and seedling development determine emergence of *Viburnum tinus* (Caprifoliaceae). **Annals of Botany** 95: 323-330.
39. 2005 *ESTES, L.D. & J.L. WALCK. The vascular flora of Rattlesnake Falls: a potential state natural area on the Western Highland Rim Escarpment in Tennessee. **Sida** 21: 1753-1780.
40. 2005 WALCK, J.L., J.M. BASKIN, C.C. BASKIN & S.N. HIDAYATI. Defining transient and persistent seed banks in species with pronounced seasonal dormancy and germination patterns. **Seed Science Research** 15: 189-196.
41. 2006 †THOMPSON, J.N., J.L. WALCK & S.N. HIDAYATI. Microhabitat requirements of the federally endangered *Dalea foliosa*, with recommendations on establishment of new populations. **Castanea** 71: 94-104.
42. 2006 BASKIN, J.M., S.N. HIDAYATI, C.C. BASKIN, J.L. WALCK, Z.-Y. HUANG & C.-T. CHIEN. Evolutionary considerations of the presence of both morphophysiological and physiological seed dormancy in the highly advanced euasterids II order Dipsacales. **Seed Science Research** 16: 233-242.
43. †FITCH, E.A., J.L. WALCK & S.N. HIDAYATI. Agroecosystem management for rare species of *Paysonia* (Brassicaceae): integrating their seed ecology and life cycle with cropping regimes in a changing climate. **American Journal of Botany**, accepted.
44. †FITCH, E.A., J.L. WALCK & S.N. HIDAYATI. Germinating seeds of two rare *Lesquerella* species: substrate effects and mucilage production. **Native Plants Journal**, accepted.

BOOK REVIEWS

1. 1992 **Modern methods in orchid conservation: the role of physiology, ecology, and management**, by H.W. Pritchard (ed.). 1989. Cambridge University Press, Cambridge. x + 173 pp. *In* **Bartonia** No. 57: 100.
2. 1998 **The ecology and evolution of clonal plants**, by H. de Kroon and J. van Groenendael (eds.). 1997. Backhuys Publishers, Leiden. xii + 453 pp. *In* **Journal of Vegetation Science** 9: 751-752.
3. 2000 **Ecoregions: the ecosystem geography of the oceans and continents**, by R.G. Bailey. 1998. Springer-Verlag, New York. ix + 176 pp. & 2 maps. *In* **Journal of Vegetation Science** 11: 315-316.

4. 2004 **The biology of seeds: recent research advances**, by G. Nicolás, K.J. Bradford, D. Côme & H.W. Pritchard. 2003. CABI Publishing, Wallingford, UK. xx + 472 pp. *In Plant Science Bulletin* 50: 133-135.
5. 2005 **The ecology of seeds**, by M. Fenner & K. Thompson. 2005. Cambridge University Press, Cambridge. x + 250 pp. *In Seed Science Research* 15: 365-366.

ABSTRACTS OF PRESENTATIONS AT SCIENTIFIC MEETINGS

[Authored with undergraduate (*) or graduate (†) student]

International

1. 1999 WALCK, J.L., J.M. BASKIN & C.C. BASKIN. Why is *Solidago shortii* narrowly endemic and *S. altissima* geographically widespread?: a comparative autecological study. **Abstracts of the XVI International Botanical Congress**, p. 359.
2. 2005 WALCK, J.L., J.M. BASKIN, C.C. BASKIN & S.N. HIDAYATI. Defining transient and persistent seed banks based on number of germination seasons rather than on number of years. **Abstracts of the 8th International Workshop on Seeds**, p. 118.
3. 2005 †FITCH, E.A., J.L. WALCK & S.N. HIDAYATI. Photoecology of seed germination for two rare *Paysonia* species: agroecosystem management and climatic change. **Abstracts of the 8th International Workshop on Seeds**, p. 26.

National

4. 1992 WALCK, J.L. Distributional, biological, and ecological characteristics of the endangered and threatened plants in Pennsylvania. **Abstracts of the Society for Conservation Biology, 6th Annual Meeting**, p. 128.
5. 1993 WALCK, J.L., J.M. BASKIN & C.C. BASKIN. What is a persistent seed bank in *Solidago*? **American Journal of Botany** 80, Supplement to No. 6: 65.
6. 1993 FRANCIS, S.W., J.L. WALCK & J.M. BASKIN. Sandstone rockhouses of the Cumberland Plateau of Kentucky and Tennessee. **American Journal of Botany** 80, Supplement to No. 6: 50.
7. 1994 WALCK, J.L., J.M. BASKIN & C.C. BASKIN. Effect of shade and competition on *Solidago shortii*, a federal-endangered species. **American Journal of Botany** 81, Supplement to No. 6: 65.
8. 1995 WALCK, J.L., J.M. BASKIN & C.C. BASKIN. Comparative autecology of a narrow endemic and a geographically-widespread species of goldenrod: growth characteristics. **American Journal of Botany** 82, Supplement to No. 6: 58.
9. 1996 WALCK, J.L., J.M. BASKIN & C.C. BASKIN. An ecologically and evolutionarily meaningful definition of a persistent seed bank in *Solidago*. **American Journal of Botany** 83, Supplement to No. 6: 78-79.

10. 1997 WALCK, J.L., J.M. BASKIN & C.C. BASKIN. Role of light and nutrients in the autecology of the narrow-endemic *Solidago shortii*. **American Journal of Botany** 84, Supplement to No. 6: 92.
11. 1998 WALCK, J.L., J.M. BASKIN & C.C. BASKIN. A review of the comparative autecology of a narrow-endemic and a widespread species of *Solidago*. **American Journal of Botany** 85, Supplement to No. 6: 42.
12. 2000 WALCK, J.L., N. OKAGAMI & S.N. HIDAYATI. Germination ecophysiology of the Asian *Osmorhiza aristata* (Apiaceae), and comparison with its North American congeners. **American Journal of Botany** 87, Supplement to No. 6: 49-50.
13. 2000 YOO, K.-O., P.P. LOWRY, J.L. WALCK & J. WEN. A phylogenetic and biogeographic analysis of *Osmorhiza* (Apiaceae) based on ITS and *ndhF* sequences. **American Journal of Botany** 87, Supplement to No. 6: 184-185.
14. 2001 WALCK, J.L. & S.N. HIDAYATI. Seed germination ecology of North American *Heuchera* species (Saxifragaceae): the eastern *H. parviflora* and western *H. cylindrica*. **Abstracts of the Annual Meeting of the Botanical Society of America**, p. 45.
15. 2001 †MORRIS, L.L. & J.L. WALCK. Growth and reproduction of the nonnative *Ligustrum sinense* and native *Forestiera ligustrina* (Oleaceae): implications for invasibility of exotic shrubs. **Abstracts of the Annual Meeting of the Botanical Society of America**, p. 41.
16. 2002 WALCK, J.L. & S.N. HIDAYATI. The influence of light during dormancy release on germination of *Schoenolirion croceum* (Hyacinthaceae) seeds. **Abstracts of the Annual Meeting of the Botanical Society of America**, p. 35.
17. 2003 †THOMPSON, J.N., J.L. WALCK & S.N. HIDAYATI. Microhabitats of the rare *Dalea foliosa* and its congener *D. gattingeri* in middle Tennessee. **Abstracts of the Annual Meeting of the Botanical Society of America**, p. 40.
18. 2005 HIDAYATI, S.N. & J.L. WALCK. Seed dispersal and germination strategies of two *Oenothera* species (Onagraceae) in temperate North America. **Abstracts of the Annual Meeting of the Botanical Society of America**, p. 48.
19. 2005 †FITCH, E.A., J.L. WALCK & S.N. HIDAYATI. Temporal aspects of the light requirement for seed germination of two rare *Paysonia* species (Brassicaceae) in considering management protocols. **Abstracts of the Annual Meeting of the Botanical Society of America**, p. 58.
20. 2006 †COFER, M.S., J.L. WALCK & S.N. HIDAYATI. Determinants of species richness and exotic species invasion on cedar glades in middle Tennessee. **Abstracts of the Annual Meeting of the Botanical Society of America**, p. 119.
21. 2006 Walck, J.L., †M.S. Cofer & S.N. Hidayati. Germination ecology of bulbils from the exotic vine *Dioscorea oppositifolia* (Dioscoreaceae). **Abstracts of the Annual Meeting of the Botanical Society of America**, p. 129.

Regional

22. 1993 WALCK, J.L. A contribution to the ecological life history of *Senecio antennariifolius*. **Association of Southeastern Biologists Bulletin** 40: 110.
23. 1993 WALCK, J.L., J.M. BASKIN & C.C. BASKIN. Seed germination ecology of *Solidago altissima* L. **Proceedings on the Natural History of Lower Tennessee and Cumberland River Valleys, 5th Symposium**, pp. 201-202.
24. 1995 WALCK, J.L., J.M. BASKIN & C.C. BASKIN. Seed germination ecology of *Solidago nemoralis* Ait. **Proceedings on the Natural History of Lower Tennessee and Cumberland River Valleys, 6th Symposium**, pp. 216-216.
25. 1997 WALCK, J.L., J.M. BASKIN & C.C. BASKIN. The role of light and nutrients in the autecology of the federal-endangered species *Solidago shortii*. I. Light. **Proceedings on the Natural History of Lower Tennessee and Cumberland River Valleys, 7th Symposium**, p. 293.
26. 1997 WALCK, J.L., J.M. BASKIN & C.C. BASKIN. The role of light and nutrients in the autecology of the federal-endangered species *Solidago shortii*. II. Nutrients. **Proceedings on the Natural History of Lower Tennessee and Cumberland River Valleys, 7th Symposium**, p. 294.
27. 1997 BASKIN, J.M., K.M. SNYDER, J.L. WALCK & C.C. BASKIN. The comparative autecology of globally-rare and geographically-widespread plant species: three case studies. **Agenda and Abstracts of the Southwestern Association of Naturalists, 44th Annual Meeting**.
28. 1999 WALCK, J.L., C.C. BASKIN & J.M. BASKIN. Seed germination ecophysiology of *Thalictrum mirabile* (Ranunculaceae). **Proceedings on the Natural History of Lower Tennessee and Cumberland River Valleys, 8th Symposium**, p. 166.
29. 2001 HIDAYATI, S.N. & J.L. WALCK. A comparative germination study of an eastern and a western North American *Heuchera* species (Saxifragaceae). **Proceedings on the Natural History of Lower Tennessee and Cumberland River Valleys, 9th Symposium**, p. 84.
30. 2001 †MORRIS, L.L. & J.L. WALCK. A comparison of the growth and reproductive characteristics of the invasive *Ligustrum sinense* and the native *Forestiera ligustrina* (Oleaceae). **Proceedings on the Natural History of Lower Tennessee and Cumberland River Valleys, 9th Symposium**, p. 87.
31. 2001 WALCK, J.L. & S.N. HIDAYATI. Dormancy-break and germination requirements of two evening-primroses: *Oenothera macrocarpa* and *O. triloba* (Onagraceae). **Proceedings on the Natural History of Lower Tennessee and Cumberland River Valleys, 9th Symposium**, p. 88.
32. 2002 †MORRIS, L.L. & J.L. WALCK. A comparison of the invasive *Ligustrum sinense* and the native *Forestiera ligustrina* (Oleaceae): growth and reproductive characteristics. **Southeast Exotic Pest Plant Council, 4th Annual Symposium**.

33. 2003 *ESTES, L.D. & J.L. WALCK. A floristic inventory of Rattlesnake Falls: a potential state natural area on the Highland Rim Escarpment in Tennessee. **Proceedings on the Natural History of Lower Tennessee and Cumberland River Valleys, 10th Symposium**, p. 258.
34. 2003 *HURT, K.D., *R.B. SULKERS, J.L. WALCK & S.N. HIDAYATI. Effects from management of the nonnative shrub *Ligustrum sinense* on native vegetation. **Proceedings on the Natural History of Lower Tennessee and Cumberland River Valleys, 10th Symposium**, p. 261.
35. 2003 *SULKERS, R.B., *K.D. HURT, J.L. WALCK & S.N. HIDAYATI. Effects of the nonnative shrub *Ligustrum sinense* on native herbaceous and woody vegetation. **Proceedings on the Natural History of Lower Tennessee and Cumberland River Valleys, 10th Symposium**, p. 262.
36. 2003 WALCK, J.L. & S.N. HIDAYATI. Seed germination ecology of the rare Tennessean plant, yellow sunnyside (*Schoenolirion croceum*). **Proceedings on the Natural History of Lower Tennessee and Cumberland River Valleys, 10th Symposium**, p. 263.
37. 2005 †SULKERS, R.B., J.W. LAMB, K.C. FITCH & J.L. WALCK. Breeding season habitat of Henslow's sparrow (*Ammodramus henslowii*) at the Arnold Air Force Base, Tennessee. **Southeastern Biology** 52: 261.
38. 2005 HIDAYATI, S.N. & J.L. WALCK. Seed dispersal and germination strategies of two *Oenothera* species (Onagraceae) in temperate North America. **Southeastern Biology** 52: 205-206.
39. 2005 †FITCH, E.A., J.L. WALCK & S.N. HIDAYATI. Photoecology of seed germination for two rare *Paysonia* species (Brassicaceae): consequences for management in an agroecosystem. **Southeastern Biology** 52: 138.
40. 2005 †HURT, K.D., †R.B. SULKERS, J.L. WALCK & S.N. HIDAYATI. Effects from the removal of the exotic species *Ligustrum sinense* (Oleaceae) on native vegetation. **Southeastern Biology** 52: 168.
41. 2005 WALCK, J.L., J.M. BASKIN, C.C. BASKIN & S.N. HIDAYATI. Defining transient and persistent seed banks based on germination seasons: ecological and evolutionary perspectives. **Southeastern Biology** 52: 137-138.
42. 2006 *ROLIG, M., J.L. WALCK & S.N. HIDAYATI. Effects of herbicides and fertilizers on seed germination of two rare *Paysonia* species (Brassicaceae). **Southeastern Biology** 53: 171.

State

43. 1990 KLOTZ, L.H. & J.L. WALCK. First Pennsylvania record of *Hydrophyllum macrophyllum* Nutt. **Program and Abstracts of the Commonwealth of Pennsylvania University Biologists, 21st Annual Meeting**.
44. 1991 WALCK, J.L. Life history and population dynamics of the rare shale barren ragwort. **Journal of the Pennsylvania Academy of Science** 64: 209.

45. 1991 KLOTZ, L.H. & J.L. WALCK. Pennsylvania records of *Hydrophyllum macrophyllum* Nutt. (Hydrophyllaceae). **Journal of the Pennsylvania Academy of Science** 64: 194.
46. 2001 †MORRIS, L.L. & J.L. WALCK. A comparative study of the invasive *Ligustrum sinense* and the native *Forestiera ligustrina* (Oleaceae) in cedar glade/woodland habitat of Middle Tennessee: growth characteristics. **Journal of the Tennessee Academy of Science** 76: 16.
47. 2002 †THOMPSON, J.N., J.L. WALCK & S.N. HIDAYATI. Microhabitats of the rare *Dalea foliosa* and its congener *D. gattingeri* in middle Tennessee. **Journal of the Tennessee Academy of Science** 77: 20.
48. 2002 †WELCH, L., K.E. BLUM & J.L. WALCK. Preliminary report on native plant landscaping for management of archaeological sites in middle Tennessee. **Journal of the Tennessee Academy of Science** 77: 20.
49. 2003 *ESTES, L.D. & J.L. WALCK. Clarification of *Carex* section *Phaestoglochin* in Tennessee, with particular reference to *C. radiata*. **Journal of the Tennessee Academy of Science** 78: 23.
47. 2006 *ANDERSON, R., *K. HIETT, W. ANDERSON, J. WALCK & T. HOGAN. Shading effect on the growth of nimblewill (*Muhlenbergia schreberi*). **Journal of the Tennessee Academy of Science** 81: 22.

INVITED LECTURES

1. 1991 **Symposium: Rare plants of Pennsylvania and adjacent states. Morris Arboretum of the University of Pennsylvania**, 28 March. Talk entitled “Rare vascular plants associated with limestone in southwestern Franklin County, Pennsylvania.”
2. 1993 **Symposium: Overview of the phytogeography and ecology of rock cliffs, barrens, and glades in eastern North America.** Botanical Society of America annual meeting, 4 August. Talk entitled “Sandstone rockhouses and overhangs of the eastern United States, with particular reference to the endemic vascular plants.”
3. 1998 **Seminar: Northern Kentucky University**, Department of Biological Sciences, 11 November. Talk entitled “Comparative ecology of the Kentucky-endemic Short’s goldenrod and its geographically-widespread congener: an investigation into the causes of plant rarity.”
4. 1999 **Seminar: Middle Tennessee State University**, Department of Biology, 11 February. Talk entitled “Comparative ecology of an endemic and a widespread goldenrod: an investigation into the causes of plant rarity.”
5. 2000 **Seminar: University of Tennessee – Knoxville**, Department of Botany, 27 March. Talk entitled “Conservation biology of the endemic Short’s goldenrod: insights to causes of plant rarity.”

6. 2000 **Seminar: Eastern Kentucky University**, Department of Biological Sciences, 20 October. Talk entitled “Rarity of Short’s goldenrod, an endangered plant in Kentucky.”
7. 2001 **Seminar: Austin Peay State University**, Department of Biology & Center for Field Biology, 18 January. Talk entitled “Conservation biology of the endangered plant, Short’s goldenrod.”
8. 2002 **Honors College Lecture: Middle Tennessee State University**, 9 September. Talk entitled “Cedar glades: a globally endangered ecosystem.”
9. 2004 **Seminar: Shorter College**, 27 September. Talk entitled “Exotic plants in the cedar glade ecosystem: invasiveness, effects, and management.”
10. 2005 **Public Lecture: Philadelphia Botanical Club**, 24 March. Talk entitled “Cedar glades: history, ecology, and conservation.”
11. 2005 **Seminar: University of Kentucky**, Seed Biology Group, 13 October. Talk entitled “Ecology of seed germination – linkages to management, biogeography, and invasion in a changing climate.”
12. 2005 **Seminar: Ohio State University**, Department of Horticulture and Crop Science, 14 October. Talk entitled “Seed germination – ecological considerations and applications to conservation biology.”
13. 2005 **Workshop: Ornamental Plant Germplasm Center**, Ohio State University, 14 October. Talk entitled “Twists and turns of a seed ecologist – germinating seeds of wild plants.”
14. 2006 **Seminar: Hokkaido University (Japan)**, Graduate School of Agriculture, 5 June. Talk entitled “North America and Asia – our shared natural history from a seed perspective.”

PROFESSIONAL SOCIETY MEMBERSHIPS

Association of Southeastern Biologists
Botanical Society of America

International Society for Seed Science
Southern Appalachian Botanical Society

PROFESSIONAL SERVICE

Chairperson for Paper Sessions at Meetings

1991	Rare Plants of Pennsylvania and Adjacent States – Symposium, Morris Arboretum
1998	Rare Plants and Invasive Species – Botanical Society of America
2000	Plant Ecology – Botanical Society of America
2001	Evolutionary Ecology and Conservation Biology – Botanical Society of America
2002	Seed Ecology and Reproductive Biology – Botanical Society of America
2002	Botany – Tennessee Academy of Science

- 2005 Seed Production and Germination – Botanical Society of America
 2006 Plant Ecology – Association of Southeastern Biologists
 2006 Invasive Species and Exotics – Botanical Society of America

Best Student Paper & Poster Judge

- 1998 Ecological Section – Botanical Society of America Annual Meeting
 2002 Botany Section – Tennessee Academy of Science Annual Meeting
 2003 Ecological Section – Botanical Society of America Annual Meeting
 2005 ESA/SEC Odum Award – Association of Southeastern Biologists Annual Meeting
 2006 ESA/SEC Odum Award – Association of Southeastern Biologists Annual Meeting
 2006 Ecological Section – Botanical Society of America Annual Meeting

Leadership Positions

- 2000–01 **Secretary** – Botanical Section of Tennessee Academy of Science
 2001–02 **Chair** – Botanical Section of Tennessee Academy of Science
 2006–present **Chair** – Editorial Board of *Castanea*
 2006–present **Chair** – Richard & Minnie Windler Award Committee, Southern Appalachian Botanical Society
 2006–present **Vice Chair** – Ecological Section of the Botanical Society of America

Committees

- 1992–96 Conservation Committee – Botanical Society of America
 2000 Rare Species Advisory Panel – Arnold Air Force Base, Tennessee
 2002–present Rare Plant Advisory Committee – Tennessee Division of Natural Areas
 2004–present Executive Council – Southern Appalachian Botanical Society
 2004–present Richard & Minnie Windler Award – Southern Appalachian Botanical Society
 2006–present Forest Conservation Values Advisory Group – Tennessee Division of Forestry
 2006–present Regional Panel on Exotic Plants List – Tennessee Exotic Pest Plant Council

Editorship Positions

- 2004–present **Editorial Board** – *Castanea*
 2005–present **Book Review Editor** – *Native Plants Journal*

Ad hoc Reviewer for Journals

Acta Oecologica (1 manuscript), **American Journal of Botany** (6), **American Midland Naturalist** (4), **Annals of Botany** (1), **Australian Journal of Botany** (2), **Bartonia** (1), **Biological Conservation** (2), **Canadian Journal of Botany** (3), **Canadian Journal of Plant Science** (1), **Castanea** (3), **Ecological Applications** (1), **Ecological Research** (1), **HortTechnology** (1), **International Journal of Plant Sciences** (2), **Journal of the Pennsylvania Academy of Science** (1), **Journal of the Tennessee Academy of Science** (2), **Journal of the Torrey Botanical Society** (5), **Native Plants Journal** (2), **Naturwissenschaften** (1), **Northeastern Naturalist** (1), **Ohio Journal of Science** (1), **Plant Ecology** (3), **Rhodora** (1), **Seed Science Research** (5), **Sida** (1), **Southeastern**

Naturalist (1), Weed Research (2), Wetlands (2)

***Ad hoc* Reviewer for Edited Publications, Database, & Government Document**

Flora of North America, Vol. 3 (1997) – Edited by the Flora of North America Editorial Committee (Distribution maps)

Evolution of Functional Traits in Plants (2003) – Edited by D.D. Ackerly & R.K. Monson. Supplement to International Journal of Plant Sciences (1 manuscript)

Proceedings of the 6th Symposium on the Natural History of Lower Tennessee and Cumberland River Valleys (1995) – Edited by S.W. Hamilton et al. (1 manuscript)

IUCN/ISSG Global Invasive Species Database (account for *Ligustrum sinense*)

USFWS (Recovery Plan for *Lesquerella perforata*)

***Ad hoc* Reviewer for Grant Proposals**

National Science Foundation – Ecological Studies

National Fish and Wildlife Foundation

INTRAMURAL SERVICE

University Committees, Middle Tennessee State University

2001–03	Member	Rules Committee (Chair, Housing Subcommittee)
2003–04	Member	Graduate Council (Member, Student Affairs & Travel Subcommittee) (Member, Graduate Suspension Appeals)
2004–05	Vice Chair	Graduate Council (Chair, Student Affairs & Travel Subcommittee) (Member, Graduate Suspension Appeals)
2004–05	Chair	Ph.D. in Interdisciplinary Sciences Program
2004–05	Member	Research Advisory Task Force on Workloads
2005–06	Member	Research Council
2005–06	Chair	Graduate Council
2005–06	Member	Dean of Graduate Studies/Vice Provost of Research Search

College of Graduate Studies Committees, Middle Tennessee State University

2004–05	Member	Associate Dean Search
2004–05	Member	<i>Ad hoc</i> Committee on Graduate Faculty Membership

Department of Biology Committees, Middle Tennessee State University

2000–01	Member	Botany Partnership Taskforce
2000–01	Member	Ecology and Organismal Biology Partnership Taskforce
2000–02	Member	Revision of General Biology Curriculum
2000–02	Member	Plant Molecular Biology Position Search

2002–03	Chair	Molecular Systematics Position Search
2004–05	Chair	Promotion and Tenure
2004–05	Member	Organismal Biology/Ecology Planning Group
2004–05	Member	Revision of Promotion and Tenure Guidelines
2005–06	Member	Systematist Position Search
1999–present	Member	Graduate Curriculum and Assessment
2003–present	Member	Biology 1030
2006–present	Member	New Science Building
2006–present	Member	Vertebrate Biologist Position Search
2006–present	Member	Population Geneticist Position Search

MENTORSHIP — UNDERGRADUATE RESEARCH STUDENTS

Student	Period	Topic of project
Michele Webber	Fall 2001	Evaluating the management of exotic plants at Stones River National Battlefield
Jodi Leke	2001–04	Plant ecology investigations
Kyle Hurt	2002–03	Management of the exotic <i>Ligustrum sinense</i> in middle Tennessee
Rachael Sulkers	2002–03	Effects of the exotic <i>Ligustrum sinense</i> on native vegetation
Dwayne Estes	2002–03	Flora of Rattlesnake Falls, Maury County, Tennessee
Sara Gardner	Spr. 2003	Seed dispersal of <i>Oenothera macrocarpa</i>
Michael Krisle	2003–04	Identity of <i>Oxalis</i> species in middle Tennessee
Meggan Haase	2005–06	Seed germination of the exotic <i>Nandina domestica</i>
Marta Rolig	Current	Effects of fertilizers and herbicides on the seed ecology of two rare <i>Paysonia</i> species
Megan Imboden	Current	Seed germination ecology investigations

MENTORSHIP — GRADUATE STUDENTS

Project Supervisor

Student	Status	Title of project
M.S. in Biology (Thesis Required)		
Lorna Morris	Finished May 2001	A comparison of growth and reproductive characteristics of the invasive <i>Ligustrum sinense</i> and the native <i>Forestiera ligustrina</i>
Jennifer Thompson	Finished May 2003	Microhabitat differences of two cedar glade species: the federally endangered <i>Dalea foliosa</i> and its congener <i>D. gattingeri</i>
Elizabeth Fitch	Finished May 2004	Photoecology of seed germination for two rare <i>Lesquerella</i> species: consequences for management
Laura McCall	Finished Aug. 2004	Dispersal characteristics of two native (<i>Cornus amomum</i> , <i>Frangula caroliniana</i>) and two nonnative (<i>Elaeagnus umbellata</i> , <i>Ligustrum sinense</i>) fleshy-fruited shrubs
Rachael Sulkers	Finished May 2005	Habitat selection by Henslow's sparrows (<i>Ammodramus henslowii</i>) during the breeding season in the southeastern Highland Rim of Tennessee
M. Shea Cofer	Current	Determinants of species richness and exotic species invasion on cedar glades of middle Tennessee
Kyle Hurt	Current	Management of the exotic <i>Ligustrum sinense</i>
M.S. in Biology Teaching (Special Project Required)		
Mary Penuel	Finished May 2001	Angiosperms of Bradley Creek, Rutherford County, Tennessee
Sara Redmond	Finished May 2002	Tree and shrub inventory of Flat Rock Cedar Glades and Barrens State Natural Area

Committee Member

M.S. in Biology

Ruth Alderson (current)	Pam Monger (2001)
Tamara Berthel (finished 2002)	Brenda Myers (2001)
Angela Cathey (2002)	David Palmer (2004)
Dwayne Coleman (2006)	Jessica Rader (current)
Jessica Fayissa (current)	Jamie Rogers (2003)
Brad Gloriosa (2006)	Steve Samoray (2002)

Tracey Ludyjan-Ybarra (2004)
 Rebecca McWhirten (2004)
 Sheri Mersch (current)
 Karen Metius-House (current)

Jeremy Spiess (2004)
 LinnAnn Welch (2002)
 Adrienne West (2003)

Ph.D. in Human Performance (Recreation and Leisure Studies)

John McFadden (current)

TEACHING EXPERIENCE

Presentation and/or Fieldtrip Leader: 31 sessions on natural history topics for classes and community groups since 1991

Laboratory Instructor or Course Assistant – University of Kentucky

Plant Biology Laboratory (Bio 107)	Falls 1991– 93
Principles of Biology Laboratory (Bio 151)	Falls 1994 – 95
Field Botany (Bio 261)	Spring 1992
Introductory Ecology (Bio 325)	Springs 1993, 95, 97 & Summers 1992 – 98
Plant Kingdom (Bio 351)	Fall 1997
Plant Autecology (Bio 551)	Springs 1994, 96, 98
Mycology (Bio 573)	Fall 1996

Course Instructor – Middle Tennessee State University

Topics in Biology (Biol 1030)	Falls 1999 – 2003 & Spring 2003
General Biology (Biol 1120)	Springs 2000 – 02, 04 – 05
Environmental Problems (Biol 3070)	Falls 2002 – 05 & Summers 2002 – 03
General Ecology (Biol 4240/5240)	Summers 2004 – 05
Conservation Biology (Biol 6460)	Springs 2000 – 06