

Curriculum Vitae

Name: W. John Hayden

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University education:

1969-1973 University of Connecticut, B.A. with High Honors, with Honors in Biological Science (1973).

1973-1976 University of Maryland, M.S. in Botany: Comparative anatomy and systematics of *Picrodendron*, genus incertae sedis (1976).

1976-1980 University of Maryland, Ph.D. in Botany: Systematic anatomy of Oldfieldioideae (Euphorbiaceae) (1980).

Positions held:

- 1973 Teaching Assistant, University of Connecticut, Storrs, Ct.
1973-1978 Teaching Assistant, University of Maryland, College Park, Md.
1975-1976 Research Assistant, University of Maryland, and Beltsville Agricultural Research Center, Plant Taxonomy Laboratory, Beltsville, Md.
1978-1980 Instructor, University of Maryland, College Park, Md.
1980 Assistant Program Manager (Systematics), Division of Environmental Biology, National Science Foundation, Washington, D.C.
1980-present Faculty, Dept. of Biology, University of Richmond, Richmond, Va. assistant professor (1980-1988); tenured (1986); associate professor (1988-1995); full professor (1995-present).
1997-2002 Chair, Department of Biology, University of Richmond, Richmond, Va.

Areas of teaching interest (with number of semesters experience):

General Botany (21), General Biology (19), Gen-ed Human Biology (2), Plant Anatomy (17), Plant Morphology (10), Plant Microtechnique (2), Plant Systematics (21), Economic Botany (2) Tropical Marine Biology--Botanical Aspects (4), Biodiversity (microbes & plants) (2), Wood Anatomy (graduate level) (2), Living in Yucatan (ethnobotany and forest ecology) (5); Mesoamerican Ethnobotany (11); Medical Botany (3).

Service:

University of Maryland: Search Committee for Chairman, Dept. of Botany (1977-1978); Graduate Council Committee on Fellowships (1978-1980).

University of Richmond, Committees served (extradepartmental): Library (1981-1989); Undergraduate Research (1982-1983, 1988-1989, 1990-1991); Sponsored Programs (1982); Honors (1983-1985); Accreditation Self-Study on Faculty (1986-1987); Curriculum (1990-1994); Ethyl Science Scholars (1991-1997); Robins Chair Search (1991-1993), Honorary Degrees (1997-2000), IACUC (1997-2002), Graduate Council (1992-2000, 2002-2009); Environmental Awareness (2009-2012).

Lewis Ginter Botanical Garden: Advisory Board (1982-1985); Science Committee (1985-1990); Library Committee (1985-1990); Education Committee (2000-present).

American Society of Plant Taxonomists: Cooley Award Committee (1981); Annual Meeting Local Representative (1990).

Botanical Society of America: Esau Award Committee (1985, 1990-1992); Selection Committee for Editor of American Journal of Botany (1993-1994).

Society of the Sigma Xi: Secretary-Treasurer, University of Richmond Club (1983-1986, 1988-1991, 1997).

Virginia Science Museum: Virginia Environment Exhibit Committee (1983-1984).

Virginia Academy of Science: Flora Committee (1984-1986; 2004-2010); Botany section vice chairman (1986-1987; 2002-2003; 2013-2014), secretary (1987-1988; 2003-2004; 2014-2015), chairman (1988-1989; 2004-2005; 2015-2016); Annual Meeting Local Arrangements Committee, Publicity and Signs (1984), Signs (1992).

Virginia Flora Advisory Board (2002)

Botany Chair, Virginia Native Plant Society (2004-present)

Virginia Botanical Associates (2007 to present)

Honors and Awards:

Michael J. Pelczar Award, University of Maryland, May 1980

Carrol E. Cox Award, University of Maryland, May 1980

J. Shelton Horsley Award, Virginia Academy of Science, May 1991

D. A. Kuyk Endowed Chair of Biology, University of Richmond 1992-2004

Book dedication: Seeing Trees, by Nancy Ross Hugo and Robert Llewellyn, Timber Press.

Eponymy: *Haydenia* M. P. Simmons Syst. Bot. 36:929 (2011); *Haydenoxylon* M. P. Simmons Novon 23:224-225 (2014).

Elected to membership in Omicron Delta Kappa, Epsilon Chapter (University of Richmond) (March, 2015)

Distinguished Service Award, Virginia Native Plant Society, March 2017

Elected Fellow of the Virginia Academy of Science, May 2018

Professional society memberships:

Botanical Society of America
 American Society of Plant Taxonomists
 International Association of Wood Anatomists
 American Association for the Advancement of Science

Virginia Academy of Science
Southern Appalachian Botanical Society

Areas of research interest: Plant anatomy, morphology, and systematics, especially anatomical approaches to systematics of Euphorbiaceae; Virginia flora; Yucatan flora.

Grants and fellowships received:

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| 1982-1984 | \$10,983.00, Comparative stem ontogeny and phyllome anatomy in <i>Chamaesyce</i> and <i>Euphorbia</i> subgenus <i>Agaloma</i> , Jeffress Memorial Trust. |
| 1984 | \$16,361.00, RUI: Instrumentation for Research in Systematic Anatomy of Euphorbiaceae, National Science Foundation, Systematics Program. |
| 1985 | \$7,690.00, Flora Study for Richmond National Battlefield Park, United States Department of the Interior, National Park Service (with Miles F. Johnson, Virginia Commonwealth University). |
| 1985 | \$2,000.00, Floral Morphology of <i>Neowawraea</i> , Summer Fellowship, Faculty Research Committee, University of Richmond. |
| 1986 | \$14,559.00, Phase Microscopes for Instruction in Structural Botany, National Science Foundation, College Science Instrumentation Program. |
| 1986 | \$2,000.00, Survey of Foliar Sclereids of <i>Amanoa</i> (Euphorbiaceae), Faculty Research Committee, University of Richmond. |
| 1986 | \$5,960.00, Flora Study for Richmond National Battlefield Park (Renewal), United States Department of the Interior, National Park Service (with Miles F. Johnson, Virginia Commonwealth University). |
| 1991 | \$1050.00, Collection of <i>Chamaesyce</i> , <i>Euphorbia</i> , and other plants in Texas, Faculty Research Committee, University of Richmond. |
| 1995 | \$5,000.00, Preparation of a Contribution on <i>Tetracoccus</i> for the Flora of North America, Faculty Research Committee, University of Richmond. |
| 2000 | \$60,000, 2000 Merck/AAAS Undergraduate Science Research Program (USRP) award of \$20,000 per year for up to 3 years (with Stuart Clough, Department of Chemistry, University of Richmond). |
| 2001 | \$1500, Floristic and Ethnobotanical Studies in the Yucatan Peninsula, Mexico, Mednick Memorial Fellowship, Virginia Foundation of Independent Colleges, Richmond, VA |
| 2007 | \$4,000, North American Floristic Studies, A&S Dean's Office, University of Richmond, VA |
| 2010 | \$6,000, Keys to the Plants of Kaxil Kiuic, summer fellowship, University of Richmond, Faculty Research Committee |

Invited lectures:

Systematic anatomy of Oldfieldioideae (Euphorbiaceae). I. Overview. August 15, 1989.
International Conference on the Systematics of Euphorbiaceae. Missouri Botanical Garden, St. Louis.

- Anatomy and systematics of *Amanoa* (Euphorbiaceae). October 16, 1991. Biology Seminar Series, Virginia Commonwealth University, Richmond, VA.
- Wood anatomy of Acalyphoideae (Euphorbiaceae). August 4, 1999. Paper presented at XVI International Botanical Congress. ABSTRACT: IAWA Journal 20: 108-109.
- Kaxil Kiuic, the Forest Meeting Place, Yucatan, Mexico. Seminar presented, UR Biology Department Seminar, 13 February 2006.
- Hayden, W. J. 2013. From Copperleaf to Chi'ilib Tux: Studies in the Genus *Acalypha* (Euphorbiaceae). Seminar presented (sabbatical leave report), UR Biology, 28 October 2013

Museum exhibits:

- Native Plants of Virginia: Selections from the University of Richmond Herbarium. Lora Robins Gallery of Design from Nature, University of Richmond Museums, 27 February to 12 July 2007.
- Ornamental Plants of the Caribbean. International Education Gallery, University of Richmond, 20 February 2012-31 July 2012.

Scholarly and didactic internet resources:

- Hayden, W. J. 2005 and onwards. Flora of Kaxil Kiuic. <http://chalk.richmond.edu/flora-kaxil-kiuic/index-kiuic%20checklist.html>
- Hayden, W. J. 2013. Botany. Chapter published as part of the Virginia Master Naturalist Basic Training Course: https://www.pubs.ext.vt.edu/content/dam/pubs_ext_vt_edu/ANR/ANR-10/CNRE-62.pdf (Virginia Cooperative Extension/Virginia Tech & Virginia State University)

Papers and posters presented with published abstracts (* indicates undergraduate coauthor; ** indicates masters student):

- Hayden, W. J. 1979. Recognition of species groups in *Austrobuxus* based on features of foliar anatomy. A.I.B.S. Annual Meeting, Stillwater, Oklahoma. ABSTRACT: Bot. Soc. Amer., Misc. Ser. Publ. No. 157: 58.
- Hayden, W. J. 1981. Systematic Anatomy of Caletieae (Euphorbiaceae -Oldfieldioideae). A.I.B.S. Annual Meeting, Bloomington, Indiana. ABSTRACT: Bot. Soc. Amer., Misc. Ser. Publ. No. 160: 69.
- Hayden, W. J. 1982. Comparative anatomy and relationships of *Androstachys* Prain and *Petalostigma* F. V. Mueller (Euphorbiaceae subf. Oldfieldioideae). A.I.B.S. Annual Meeting, State College, Pennsylvania. ABSTRACT: Bot. Soc. Amer., Misc. Ser. Publ. No. 162: 96.
- Hayden, W. J. 1982. A laboratory exercise in wood identification for an undergraduate course in plant anatomy. A.I.B.S. Annual Meeting, State College, Pennsylvania. ABSTRACT: Bot. Soc. Amer., Misc. Ser. Publ. No. 162: 115.
- Brandt*, D. S., & W. J. Hayden. 1983. Wood anatomy and relationships of the Hawaiian

- endemic genus *Neowawraea* (Euphorbiaceae). Virginia Academy of Science Annual Meeting, Fairfax, Virginia. ABSTRACT: Virginia J. Sci. 34: 138.
- Rosengarten*, M., & W. J. Hayden. 1983. Stem ontogeny in *Chamaesyce hirta* (Euphorbiaceae). Virginia Academy of Science Annual Meeting Fairfax, Virginia. ABSTRACT: Virginia J. Sci. 34: 142.
- Hayden, W. J., & S. M. Hayden. 1983. Wood anatomy and relationships of *Betula uber*, the Virginia round-leaf birch. Virginia Academy of Science Meeting, Fairfax, Virginia. ABSTRACT: Virginia J. Sci. 34: 139.
- Hayden, W. J., & D. S. Brandt*. 1984. Wood anatomy and relationships of *Neowawraea* (Euphorbiaceae). A.I.B.S. Annual Meeting, Fort Collins, Colorado. ABSTRACT: Amer. J. Bot. 71(no.5, part 2): 170.
- Hayden, W. J. 1985. Stem ontogeny and phylogeny in *Chamaesyce*. Virginia Academy of Science Meeting, Williamsburg, Virginia. ABSTRACT: Virginia J. Sci. 36: 119.
- Haskins*, M. L., & W. J. Hayden. 1985. Anatomy and systematics of the ditch stonecrop, *Penthorum*. Virginia Academy of Science Meeting, Williamsburg, Virginia. ABSTRACT: Virginia J. Sci. 36: 119.
- Haskins*, M. L., & W. J. Hayden. 1985. Anatomy and systematics of *Penthorum*. A.I.B.S. Annual Meeting, Gainesville, Florida. ABSTRACT: Amer. J. Bot. 72(no. 6, pt. 2): 956.
- Dedera*, D. A., W. J. Hayden, & S. C. Clough. 1986. A systematic survey of terpenes in the genus *Magnolia*. Virginia Academy of Science Meeting, Harrisonburg, Virginia. ABSTRACT: Virginia J. Sci. 37: 78.
- Hayden, W. J. 1986. Floral morphology and relationships of *Neowawraea* (Euphorbiaceae). Virginia Academy of Science Meeting, Harrisonburg, Virginia. ABSTRACT: Virginia J. Sci. 37: 78.
- Hayden, W. J. 1987. The identity of the genus *Neowawraea* Rock (Euphorbiaceae). A.I.B.S. Annual Meeting, Columbus, Ohio. ABSTRACT: Amer. J. Bot. 74: 736.
- Hayden, W. J., M. L. **Haskins, M. F. Johnson, & J. M. Gardner*. 1988. Flora of Richmond National Battlefield Park, Virginia. Virginia Academy of Science Meeting, Charlottesville, Virginia. ABSTRACT: Virginia J. Sci. 39: 126.
- Hayden, W. J. 1988. Ontogeny of the cotyledonary region of *Chamaesyce maculata* (Euphorbiaceae). A.I.B.S. Annual Meeting, Davis, Calif. ABSTRACT: Amer. J. Bot. 75(no. 6, pt. 2): 178.
- Hayden, W. J., & J. Clough*. 1989. Identification and localization of methyl salicylate in roots of *Viola* subgenus *Melanium*. Virginia Academy of Science Meeting, Richmond, Virginia. ABSTRACT: Virginia J. Sci. 40: 63.
- Dupree**, J., & W. J. Hayden. 1990. Wood anatomy of *Flueggea suffruticosa* (Euphorbiaceae). Virginia Academy of Science Meeting, Fairfax, Virginia. ABSTRACT: Virginia J. Sci. 41: 64.
- McGuire**, W. & W. J. Hayden. 1990. Anatomical comparison of woody tissues of *Chamaesyce nutans* and *C. hypericifolia* (Euphorbiaceae). Virginia Academy of Science Meeting, Fairfax, Virginia. ABSTRACT: Virginia J. Sci. 41: 67.
- Rickman**, T. & W. J. Hayden. 1990. Wood anatomy of *Argythamnia blodgettii* (Euphorbiaceae). Virginia Academy of Science Meeting, Fairfax, Virginia.

- ABSTRACT: Virginia J. Sci. 41: 68.
- Tarasidis**, K., & W. J. Hayden. 1990. Secondary xylem of *Euphorbia leuconeura* (Euphorbiaceae): woody stem bases and the transition to succulence. Virginia Academy of Science Meeting, Fairfax, Virginia. ABSTRACT: Virginia J. Sci. 41: 68.
- Hayden, W. J. 1991. Taxonomic studies of *Amanoa* (Euphorbiaceae). Virginia Academy of Science Meeting, Blacksburg, Virginia. ABSTRACT: Virginia J. Sci. 42: 183.
- Jordan*, M. S., & W. J. Hayden. 1992. Anatomy of the seed surface in *Chamaesyce*: preliminary studies of the mucilaginous layer. Virginia Academy of Science Meeting, Richmond, Virginia. ABSTRACT: Virginia J. Sci. 43: 238.
- Hayden, W. J. 1992. SEM in the plant anatomy teaching laboratory: stem anatomy of *Juncus effusus*. Virginia Academy of Science Meeting, Richmond, Virginia. ABSTRACT: Virginia J. Sci. 43: 237.
- Hayden, W. J. 1992. Wood anatomy and relationships of Australasian Oldfieldioideae (Euphorbiaceae). Presented at symposium on "Diversity of Pacific Basin Woods in Past, Present, and Future," sponsored by the National Tropical Botanical Garden, Lawai, Hawaii, and the International Association of Wood Anatomists.
- Hayden, S. M., & W. J. Hayden. 1993. Stem anatomy and medullary bundles of *Croton glandulosus* var. *septentrionalis* (Euphorbiaceae). Virginia Academy of Science Meeting, Old Dominion University, Norfolk, Virginia. ABSTRACT: Virginia J. Sci. 44: 119.
- Simmons*, M. P., D. M. E. Ware, & W. J. Hayden. 1993. The vascular flora of the Potomac River drainage of King George County, Virginia. Virginia Academy of Science Meeting, Old Dominion University, Norfolk, Virginia. ABSTRACT: Virginia J. Sci. 44: 123.
- Simmons*, M. P., & W. J. Hayden. 1994. Systematics of *Chamaesyce* subsection *Pleadenia* (Euphorbiaceae). Virginia Academy of Science Meeting, James Madison University, Harrisonburg, Virginia. ABSTRACT: Virginia J. Sci. 45: 72.
- Hayden, W. J. 1996. The genus *Tetracoccus* in North America. Virginia Academy of Science Meeting, Virginia Commonwealth University, Richmond, Virginia. ABSTRACT: Virginia J. Sci. 47: 102.
- Hayden, W. J., & S. M. Hayden. 1996. Two enigmatic biovulate Euphorbiaceae from the neotropics: relationships of *Chonocentrum* and the identity of *Phyllanoa*. A.I.B.S. Annual Meeting, Seattle, Washington. ABSTRACT: Amer. J. Bot. 83(6-supplement): 162.
- Hayden, W. J. & O. G. Troyanskaya*. 1997. Seedling development in two species of *Chamaesyce* with erect growth habits. Virginia Academy of Science Meeting, Virginia Tech, Blacksburg, VA. ABSTRACT: Virginia J. Sci. 48:96.
- Hayden, W. J. & J. D. Lewandowski*. 1997. Gynoecium structure in *Penthorum*. Virginia Academy of Science Meeting, Virginia Tech, Blacksburg, VA. ABSTRACT: Virginia J. Sci. 48: 95.
- Hayden, W. J. & L. S. Machut*. 1997. Does the rhizome of *Saururus cernuus* undergo secondary growth? Virginia Academy of Science Meeting, Virginia Tech, Blacksburg, VA. ABSTRACT: Virginia J. Sci. 48: 96.
- Hayden, W. J. & J. D. Lewandowski*. 1997. Anatomy and morphology of the gynoecium of

- Penthorum*. A.I.B.S. Annual Meeting, Montreal, Canada. ABSTRACT: Amer. J. Bot. 84(6, Supplement): 201.
- Machut*, L. S. & W. J. Hayden. 1998. Further studies of xylem development in the rhizomes of *Saururus cernuus*. Virginia Academy of Science Meeting, George Mason University, Fairfax, VA. ABSTRACT: Virginia J. Sci. 49: 70.
- Hayden, W. J. & S. M. Hayden. 1998. Anatomy of secondary xylem in the *Acalypha virginica* complex. Virginia Academy of Science Meeting, George Mason University, Fairfax, VA. ABSTRACT: Virginia J. Sci. 49: 70.
- Hayden, W. J., & S. M. Hayden. 1999. Wood anatomy of Acalyphoideae (Euphorbiaceae). Paper presented at XVI International Botanical Congress. ABSTRACT: IAWA Journal 20: 108-109.
- Hayden, W. J., & S. M. Hayden. 2000. Relationships of *Chonocentrum* (Euphorbiaceae). Virginia Academy of Science Meeting, Radford University, Radford, VA. ABSTRACT: Virginia J. Sci. 51: 95.
- Hayden, W. J. 2000. Student projects in plant anatomy: A thematic approach with a focus on cassava. Virginia Academy of Science Meeting, Radford University, Radford, VA. ABSTRACT: Virginia J. Sci. 51: 96.
- Kostadinov*, T., & W. J. Hayden. 2002. An internet based inventory of the trees and shrubs of the University of Richmond Campus. Paper presented at Virginia Academy of Science, Hampton University, 23 May 2002. ABSTRACT: Virginia J. Sci. 53: 77.
- Truman**, P. A., G. P. Fleming, and W. J. Hayden. 2002. *Acalypha deamii* east of the Appalachians. Paper presented at Virginia Academy of Science, Hampton University, 23 May 2002. ABSTRACT: Virginia J. Sci. 53: 76-77.
- Hayden, W. J. 2002. Initiation and first results of a floristic inventory for Rancho Kiuic, Yucatan, Mexico. Paper presented at Virginia Academy of Science, Hampton University, 23 May 2002. ABSTRACT: Virginia J. Sci. 53: 77.
- Rigsby*, C. C. & W. J. Hayden. 2003. Morphology and anatomy of reproductive structures of two species of *Acalypha* (Euphorbiaceae). Poster presented, Virginia Academy of Science, Charlottesville, VA. ABSTRACT: Virginia J. Science 54: xx.
- Truman**, P. A., & W. J. Hayden. 2003. Anatomy and development of flowers in *Acalypha deamii* and *A. rhomboidea* (Euphorbiaceae); a comparative study of staminate, pistillate, and allomorphic structures. Paper presented at Virginia Academy of Science, Charlottesville, VA, 29 May 2003. ABSTRACT: Virginia J. Science 54: 75-76.
- Truman**, P. A. & W. John Hayden. 2003. *Acalypha deamii*: Distribution East of the Appalachians and Comparative Studies of Reproductive Anatomy. Poster presented at Botanical Society of America, Mobile, AL. ABSTRACT: Amer. J. Bot.
- Kostadinov*, T., S. M. Hayden, & W. J. Hayden. 2003. Correcting the record: Wood of *Dalechampia* (Euphorbiaceae Subfamily Acalyphoideae) lacks laticifers. Paper presented at the Pan-American Regional Group Meeting of the International Association of Wood Anatomists meeting, Portland, OR, July 2003. ABSTRACT: IAWA Journal 24: 321.
- Kostadinov*, T., S. M. Hayden, & W. John Hayden. 2004. Secondary xylem of *Dalechampia* (Euphorbiaceae). Paper presented at the annual meeting of the Virginia Academy of Science. Abstract: Va. J. Sci. 55: 33-34.

- Callaghan, J. A. & W. J. Hayden. 2004. The Helen Moyers Biocultural Reserve at Rancho Kiuic, Yucatan, Mexico: An introduction to the reserve and its flora. Annual Meeting of the Botanical Society of America, Snowbird, Utah (Botany 2004). ABSTRACT: Botany 2004 Scientific Meeting Abstracts #663, p.169.
- Terry**, M. & W. J. Hayden. 2005. Vascular plant inventory of Powhatan County, Virginia. Paper presented at the annual meeting of the Virginia Academy of Science. Abstract: Va. J. Sci. 56: 18.
- Terry**, M. & W. J. Hayden. 2005. Vascular plants of Powhatan County, Virginia. Poster presented at the annual meeting of the Botanical Society of America, Austin, Texas.
- Jahdi*, A., C. B. Marks. & W. J. Hayden. 2006. Anomalous perforations in the secondary xylem of the *Acalypha virginica* complex (Euphorbiaceae). Paper presented at the annual meeting of the Virginia Academy of Science. Abstract: Va. J. Sci. 57: 39.
- Bhattacharyya*, N., & W. J. Hayden. 2006. The genus *Acalypha* (Euphorbiaceae) in Yucatan, Mexico. Paper presented at the annual meeting of the Virginia Academy of Science. Abstract: Va. J. Sci. 57: 39-40.
- Hayden, W. J. 2006. The Flora of Kaxil Kiuic, Yucatán, Mexico. Paper presented at the annual meeting of the Botanical Society of America, Chico, California.
- Hayden, W. J. 2007. *Flueggea* (Euphorbiaceae/Phyllanthaceae): review and prospects. Paper presented at the annual meeting of the Virginia Academy of Science. Abstract: Va. J. Sci. 58: 76
- McLane*, C. E. & W. John Hayden. 2007. Secretory structures of three species of *Cnidocolus* (Euphorbiaceae) from Yucatan, Mexico. Paper presented at the annual meeting of the Virginia Academy of Science. Abstract: Va. J. Sci. 58: 76-77.
- Serdar, B., S.Terzioglu, & W. John Hayden. 2007. Wood anatomy of *Flueggea anatolica* (Phyllanthaceae). Paper presented at the Pan-American IAWA Meeting, San Luis Potosi, San Luis Potosi, Mexico, 20 July 2007.
- Jahdi*, A., C. Marks, & W. John Hayden. 2007. Peculiar features of perforation plates of the *Acalypha virginica* complex (Euphorbiaceae). Paper presented at the Pan-American IAWA Meeting, San Luis Potosi, San Luis Potosi, Mexico, 20 July 2007.
- Hayden, W. J. 2008. The genus *Bischofia* Blume (Phyllanthaceae/Euphorbiaceae), adventive in North America. Paper presented at the annual meeting of the Virginia Academy of Science. Abstract: Va. J. Sci. 59: 64.
- Hayden, W. J. 2008. Native and adventive species of *Manihot* Mill. (Euphorbiaceae) in North America. Paper presented at the annual meeting of the Virginia Academy of Science. Abstract: Va. J. Sci. 59: 64—65.
- Hayden, W. J. 2008. Herbarium specimens as art: anatomy of an exhibition. Paper presented at the annual meeting of the Virginia Academy of Science. Abstract: Va. J. Sci. 59: 63—64.
- Jahdi*, A., C. Marks, & W. J. Hayden. 2008. Intact perforation membranes in secondary xylem of the *Acalypha virginica* complex (Euphorbiaceae). Paper presented at the Botany 2008 annual meeting in Vancouver, British Columbia.
- Miller*, P. E., & W. J. Hayden. 2009. Preliminary studies of floral anatomy of *Physalis* (Solanaceae). Paper presented at the annual meeting of the Virginia Academy of Science. Abstract: Va. J. Sci. 60: 75.

- Drake*, M. J. & W. J. Hayden. 2010. Structure of foliar glands of *Stizophyllum riparium* (Bignoniaceae). Paper presented at the annual meeting of the Virginia Academy of Science. Abstract: Va. J. Sci. 61: 31.
- Hayden, W. J. 2010. An introduction to the Cape Floristic Province. Paper presented at the annual meeting of the Virginia Academy of Science. Abstract: Va. J. Sci. 61: 32.
- Hayden, W. J. 2010. Flower and inflorescence structure in *Dorstenia* (Moraceae): an undergraduate discovery science project. Paper presented at the annual meeting of the Virginia Academy of Science. Abstract: Va. J. Sci. 61: 32-33.
- Hayden, W. J. & M. J. Drake*. 2010. Structure of foliar glands of *Stizophyllum riparium* (Bignoniaceae). Paper presented at the Botany 2010 annual meeting.
<http://2010.botanyconference.org/engine/search/index.php?func=detail&aid=350>
- Kelly*, J., & W. J. Hayden. 2012. Apomixis in a pistillate clone of *Flueggea suffruticosa* (Phyllanthaceae). Paper presented at the annual meeting of the Virginia Academy of Science. Abstract: Va. J. Sci. 63: 46.
- Hayden, W. J. 2013. *Commelina benghalensis*, new to Virginia. Paper presented, Virginia Academy of Science, 23 May 2013, Blacksburg, VA.
- Dong*, D., P. M. Miller*, & W. J. Hayden. 2013. Floral anatomy and corolla nectar tubes in *Physalis* (Solanaceae). Poster presented, Botany 2013, New Orleans, LA.
- Dong*, D., & W. J. Hayden. 2014. Floral anatomy and corolla nectar tubes in *Physalis* (Solanaceae). Paper presented, Virginia Academy of Science, 15 May 2014, Virginia Commonwealth University, Richmond, VA.
- Fagan*, C., & W. J. Hayden. 2014. Anatomy and morphology of the subterranean cleistogamous flowers of *Commelina benghalensis* (Commelinaceae). Paper presented, Virginia Academy of Science, 15 May 2014, Virginia Commonwealth University, Richmond, VA.
- Sinclair*, C., M. Ferrell*, & W. J. Hayden. 2014. Addition of bryophyte records to the Digital Atlas of the Virginia Flora and other cryptogamic curatorial news from the University of Richmond Herbarium. Paper presented, Virginia Academy of Science, 15 May 2014, Virginia Commonwealth University, Richmond, VA.
- Fagan*, C., & W. J. Hayden. 2015. Cleistogamous pollination in subterranean spathes of *Commelina benghalensis* (Commelinaceae). Paper presented, Virginia Academy of Science, 22 May 2015, Virginia Commonwealth University, Richmond, VA.
- Evans*, C., J. Ha*, & W. J. Hayden. 2015. Anatomy of homeotic male to female inflorescences of *Acalypha herzogiana* (Euphorbiaceae). Paper presented, Virginia Academy of Science, 22 May 2015, Virginia Commonwealth University, Richmond, VA.
- Kwon*, S. & W. J. Hayden. 2016. Anatomy and morphology of the allomorphic pistillate flowers of *Acalypha setosa* (Euphorbiaceae). Paper presented, Virginia Academy of Science, 19 May 2016, University of Mary Washington, Fredericksburg, VA.
- Rabot*, C. & W. J. Hayden. 2016. Cyathium anatomy and morphology in *Euphorbia spathulata* (Euphorbiaceae). Paper presented, Virginia Academy of Science, 19 May 2016, University of Mary Washington, Fredericksburg, VA.
- Hayden, W. J., & C. Fagan.* 2016. Anatomy and pollination of subterranean cleistogamous flowers of Benghal Dayflower, *Commelina benghalensis* (Commelinaceae). Paper

- presented, Botany 2016, 3 August 2016, Savannah, GA.
- Kwon*, S. & W. J. Hayden. 2017. Anatomy and morphology of staminate flowers of *Acalypha setosa* (Euphorbiaceae). Paper presented, Virginia Academy of Science, 18 May 2017, Virginia Commonwealth University, Richmond, VA.
- Gordner*, C. & W. J. Hayden. 2017. Plant anatomy in the service of pharmacognosy. Paper presented, Virginia Academy of Science, 18 May 2017, Virginia Commonwealth University, VA.
- Hayden, W. J. 2017. Beginnings of the University of Richmond Herbarium: the botanists and their collections. Paper presented, Virginia Academy of Science, 18 May 2017, Virginia Commonwealth University, Richmond, VA.
- Kwon*, S. & W. J. Hayden. 2017. Floral anatomy and morphology of *Acalypha setosa* (Euphorbiaceae). Paper presented, Botany 2017, 27 June 2017, Fort Worth, TX. <http://www.botanyconference.org/engine/search/index.php?func=detail&aid=300>
- Hayden, W. J., & S. M. Hayden. 2018. The University of Richmond Herbarium myxomycete collection. Paper presented, Virginia Academy of Science, 24 May 2018, Longwood University, Farmville, VA.
- Hayden, W. J. 2019. The University of Richmond Herbarium fungi collection. Paper presented, Virginia Academy of Science, 23 May 2019, Old Dominion University, Norfolk, VA.

Minor notes and popular works:

- Hayden, W. J. 1984. Curatorial news from the University of Richmond Herbarium. *Jeffersonia* 14: 16-17.
- Hayden, W. J. 1984. University of Richmond Herbarium. *Taxon* 33: 793-794.
- Hayden, W. J. 1985. Genetic engineering. *Science (Letters)* 231: 103.
- Hayden, W. J. 1995. Mistaken identity? *Earth (Mail)* 4(2): 8.
- Hayden, W. J. 1996. Taking root. *Audubon [Letters]* Sept.-Oct. 1996: 12.
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