

VITAE: ARTHUR OLIVER TUCKER, III

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Dept. of Agriculture & Natural Resources
Delaware State University
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PERSONAL DATA:

Born - June 22, 1945; Allentown, PA

EDUCATION:

- Fountain Hill High School, Bethlehem, PA: June 1963
- B.A. Kutztown University, Kutztown, PA; June 1967
Major in biology with emphasis in botany.
Courses: general zoology (2 semesters), general botany (2 semesters), plant physiology, genetics, plant taxonomy, microbiology, mycology, physical geology, and historical geology
- M.S. Rutgers University, New Brunswick, NJ; June 1970
Thesis: Leaf proteins of *Mentha* L. (Labiatae). I. Extraction for disc-electrophoresis. II. The relation of *Mentha spicata* L. to *M. longifolia* Huds. and *M. rotundifolia* Huds. as indicated by serology and disc-electrophoresis.
Courses: plant physiology (2 semesters), cell biology, plant anatomy (2 semesters), plant morphology, bio-ecology, advanced plant taxonomy, biochemistry (2 semesters), immunology and serology (2 semesters), and principles of evolution
- Ph.D. Rutgers University, New Brunswick, NJ; June 1975
Thesis: Morphological, cytological, and chemical evaluation of the *Mentha x gentilis* L. *s.l.* hybrid complex.
Courses: algology, evolution of cultivated plants, bryology and lichenology (audit), basic statistics for research, and statistical design of experiments

LANGUAGES:

Latin (limited reading)
French (reading and speaking)
German (limited reading and speaking)

GREENHOUSE EXPERIENCE:

1964-1967 greenhouse caretaker, Kutztown University
1969-1974 greenhouse student assistant, Rutgers University
1976-x greenhouse caretaker, Delaware State University

HERBARIUM EXPERIENCE:

Co-Director, Claude E. Phillips Herbarium, Delaware State University

AWARDS:

NSF Traineeship 1967-1969
Sigma Xi Grant-in-aid and Willowood Foundation Grant for collection of plants in Europe, Summer 1970
Herb Society of America Scholarship 1971-1976
Faculty Excellence Award in Research, D.S.U., May 9, 1988
Helen DeConway Little Medal of Honor, Herb Society of America, June 29, 1990
Landscape Award, Kent County-1990, Delaware Association of Nurserymen, January 23, 1991
First Annual Otto Richter Memorial Lecture Award, International Herb Growers & Marketers Association, July 11, 1993

R. D. Morrison & F. E. Evans Outstanding Scientist Award, Association of Research Directors, October 4, 1994
 Distinguished Research Award, NAFEO (National Association for Equal Opportunity in Higher Education),
 Scientific Award, American Horticultural Society, May 30, 1996
 Industry Achievement Award, Texas Herb Growers & Marketers Association, September 21, 1996
 Professional Award, International Herb Association, July 12, 1997
 Excellence in Research/Creative Activity, Delaware State University, May 14, 1998
 Nancy Putnam Howard Award for Excellence in Horticulture, Herb Society of America, May 15, 1998
 International Herb Association 2002 Book Award, July 2001
 Gertrude B. Foster Award for Excellence in Herbal Literature, The Herb Society of America, June 2004
 Second Place in Competitive Paper Presentation in Environmental and Natural Resources, Association of
 Extension Administrators/Association of Research Directors, July 22, New Orleans, LA, June 21, 2005.
 Delaware Cooperative Extension Certificate of Achievement for Positively Outrageous Service, 2008 Annual
 Conference, October 7, 2008.
 Delaware Cooperative Extension Friends of Extension Award, 2016 Annual Conference, October 26, 2016.

PROFESSIONAL AFFILIATIONS:

The Herb Society of America
 Pennsylvania Horticultural Society
 Washington Botanical Club

RESEARCH GRANTS AT D.S.U.:

1970-1976 The Herb Society of America, Genus *Mentha*, \$1200
 1978-199- Cooperative State Research Service (Science Education Administration and Cooperative Research),
 U.S.D.A.: An evaluation of selected culinary herbs and essential oil plants as high income per acre
 cash crops for limited resource farmers (ongoing)
 1978-1980 U. S. Fish and Wildlife Service: An assessment of the rare and endangered vascular plants of
 Delaware and the Eastern Shore of Maryland \$7,800
 1980 Office of Endangered Species, United States Department of the Interior: Seventeen status reports on
 selected rare, threatened and endangered plant species in Delaware \$6,500
 1980-1983 Office of Heritage, Planning and Research; Delaware Department of Natural Resources and
 Environmental Control: Identification and management of areas with rare and/or endangered plant
 species in Delaware \$10,550
 1982 The Herb Society of America: Transportation of *Mentha* herbarium of M. J. Murray \$500
 1983-1985 Faculty Research Committee, Delaware State College: The status of two endangered plants \$600
 1984 -1985 The Nature Conservancy: An assessment of 40 rare and endangered plants in Delaware and
 potential sites for preservation \$4,000
 1984 Faculty Research Committee, Delaware State College: Transportation of the *Mentha* herbarium of M. J.
 Murray \$300
 1984-1985 Faculty Research Committee, Delaware State College: A resurvey of the vascular flora of the
 DelMarVa Peninsula: Kent Co., Delaware and Cecil Co., Maryland \$1,400
 1984-1985 U. S. Forest Service, U. S. Department of Agriculture: Ecological/floristic studies in Delaware
 \$20,000
 1985 McCormick & Co.: Oregano: Taxonomic and chemical differentiation \$2,000
 1985 Soil Conservation Service, U. S. Department of Agriculture: Field search for populations of *Oxypolis*
canbyi and *Fimbristylis perpusilla* in the Upper Chester River Watershed \$3,500
 1985-1986 Office of Nature Preserves, Division of Parks and Recreation, Delaware Department of Natural
 Resources and Environmental Control: Status of twenty rare Delaware plants \$9,000
 1985-1987 U. S. Department of Agriculture Strengthening Grants Program: Instructional Equipment (author for
 Departments of Agriculture and Natural Resources and Home Economics) \$107,777
 1986-1988 U. S. Department of Agriculture Strengthening Grants Program: Recruitment and Retention (author
 for Departments of Agriculture and Natural Resources and Home Economics) \$102,496
 1986 Faculty Research Committee, Delaware State College: publication costs for "Frankincense and Myrrh" in
 Economic Botany \$334
 1987-1989 U. S. Department of Agriculture Strengthening Grants Program: Recruitment and Retention II
 (author for Departments of Agriculture and Natural Resources and Home Economics) \$102,496
 1987 McCormick & Co: Herbs and essential oil research \$2,000

1989-1992 U. S. Department of Agriculture Strengthening Grants Program: Instructional Equipment II (author for Departments of Agriculture and Natural Resources and Home Economics) \$101,203
1997 Professional Development Award, Delaware State University, 9th International Flavor Conference \$1823.60
1999 Professional Development Award, Delaware State University, XVI International Botanical Congress \$1833
1999 Longwood Foundation, C. E. Phillips Herbarium supplemental construction costs (author for D.S.U.) \$600.000
1999 private donor, C. E. Phillips Herbarium endowment \$50,000, + \$50,000 promised matched by D.S.U.
1999 private donor, C. E. Phillips Herbarium endowment \$1,000
2003-2007 Capacity Building Grants, C.S.R.E.E.S., U.S.D.A. \$188,748
2005-2006 APHIS, U.S.D.A. \$25,762

GRANT EVALUATIONS:

Binational Agricultural Research and Development Fund
Museum Assessment Program, American Association of Museums
NIH
NSF
USAID
USDA

EDITORIAL CONSULTATIONS:

Agronomy Journal
American Journal of Botany
Biochemical Systematics and Ecology
Brittonia
Bulletin of the Torrey Botanical Club
Economic Botany
Fine Gardening
Flavour & Fragrance Journal
Herbs for Health
HortScience/Journal of the American Society of Horticultural Science
International Journal of Plant Sciences
Journal of Herbs, Spices & Medicinal Plants
Life Sciences
Madroño
New Zealand Journal of Crop & Horticultural Science
Novon
Science of the Total Environment
Taxon
Fichter, G. S. 1982. Wildflowers of North America. Random House, New York
United States Pharmacopeia Convention. 1998. Drug information for the health care professional. USP DI 18th ed. USPC, Rockville, MD.
Blumenthal, M., ed. 1998. The complete German Commission E Monographs. Amer. Bot. Council, Austin, TX.

EDITORIAL BOARDS:

Journal of Essential Oil Research 1989-2013

ADVISORY BOARDS:

American Botanical Council

EDITED PROCEEDINGS:

- Kestner, A., J. E. Simon, and A. O. Tucker, eds. Proceedings of Herbs '94. Ninth National Herb Growing and Marketing Conference, July 7-10, 1994, Raleigh, North Carolina. International Herb Growers & Marketers Association, Mundelein, Illinois.
- Kestner, A., and A. O. Tucker, eds. Proceedings of Herbs '95. Tenth Annual National Conference of the International Herb Association, July 27-30, 1995, Chicago, Illinois. International Herb Association, Mundelein, Illinois.
- Kestner, A., A. O. Tucker, and T. Mieseler, eds. Proceedings of Herbs '96. Eleventh Annual National Conference of the International Herb Association, July 18-21, 1996, San Diego, California. International Herb Association, Mundelein, Illinois.
- Kestner, A., A. O. Tucker, and T. Mieseler, eds. Proceedings of Herbs '97. Twelfth Annual National Conference of the International Herb Association, July 10-13, 1997, Danvers, Massachusetts. International Herb Association, Mundelein, Illinois.
- Tucker, A., A. O. Kestner, and C. Voigt, eds. Proceedings of Herbs '98. Thirteenth Annual National Conference of the International Herb Association, July 16-19, 1998, Lexington, Kentucky. International Herb Association, Mundelein, Illinois.
- Tucker, A., A. O. Kestner, and C. Voigt, eds. Proceedings of Herbs '99. Fourteenth Annual National Conference of the International Herb Association, July 8-11, 1999, East Lansing, Michigan. International Herb Association, Fredericksburg, Virginia.

PROFESSIONAL SERVICE:

Botany Chairman, Northern New Jersey Unit, Herb Society of America 1976-1987
 Scientific Committee, International Herb Association 1987-1990
 International Director, Historic Iris Preservation Society, 1995-2001
 Advisor, American Herbal Products Association, 1990-
 Research Grants Committee Chair, The Herb Society of America 1994-1996
 Botany and Horticulture Chair, The Herb Society of America, 1994-1999
 Plant Collections Committee Chair, The Herb Society of America, 1995-1997
 Electronic Education Committee, The Herb Society of America, 1995-1996
 Program Committee, International Herb Association 1993-2000
 Newsletter Editor, Delaware Herb Growers & Marketers Association, 1992-
 Craft Advisory Committee, Polytech High School, 1993-1994
 Board of Directors, International Herb Association, 1997-2002, 2003-
 Co-Chair, International Mint Symposium, Seattle, WA, 1996-1997
 Advisor, Herb Companion 2002-
 Advisory Committee, Caroline Career and Technology Center, Ridgely, MD 2009

NATIONAL PANELS

Planning Discussion, AID-Supported Natural Products Research: New Products from Nature, National Research Council, Washington, DC, October 11, 1994.
 Ad Hoc Panel on USAID Natural Products Research, National Research Council, Washington, DC, September 26-27, 1996.
 Scientific Project Review Panel, Dietary Supplement Center RFA, NIH, Bethesda, MD, July 29-30, 1999.
 Scientific Project Review Panel, Dietary Supplement Center RFA, NIH, Bethesda, MD, January 25, 2000.
 2007, 2008, 2009 EAC (External Advisory Council) of the ODS/NCCAM (Office of Dietary Supplements/National Center for complementary and Alternative Medicine) Center for Research on Dietary Botanical Supplements at Iowa State University, Ames, September 25-27, 2007; September 25-26, 2008; September 16-17, 2009.

BOOKS:

- Tucker, A. O., N. H. Dill, C. R. Broome, C. E. Phillips, and M. J. Maciarelo. 1979. Rare and endangered vascular plant species in Delaware. United States Fish and Wildlife Service, Newton Corner, MA. 89 pp.
- Broome, C. R., J. L. Reveal, A. O. Tucker, and N. H. Dill. 1979. Rare and endangered vascular plant species in Maryland. United States Fish and Wildlife Serv., Newton Corner, MA. 64 pp.
- Tucker, A. O., and T. DeBaggio. 2000. The big book of herbs. Interweave Press, Loveland, CO. 688 pp.

- McGuffin, M., J. T. Kartesz, A. Y. Leung, and A. O. Tucker. 2000. Herbs of commerce. Amer. Herbal Prod. Assoc., Washington, DC. 421 pp.
- Tucker, A. O., and T. D. DeBaggio. 2009. The encyclopedia of herbs. Timber Press, Portland, OR. 604 pp.
- Belsinger, S., and A. O. Tucker. 2016. Culinary herbs. Timber Press, Portland, OR.
- Janick, J., and A. O. Tucker. 2018. Unraveling the Voynich Codex: A 16th century Mexican manuscript. Springer Nature Switzerland, Cham, Switzerland.

MUSEUM EXHIBITION BOOKLET

- Tucker, A. O., R., F. C. Naczi, S. E. Yost, A. D. Whanger, and M. Whanger. 2004. The botany of the Shroud of Turin: A floral crime scene investigation. Claude E. Phillips Herbarium, Delaware State University, Dover, DE. 53 pp.

PUBLICATIONS, BOOK CHAPTERS:

- Tucker, A. O. 1986. Botanical nomenclature of culinary herbs and potherbs. Pages 33-60 in L. E. Craker and J. E. Simon, eds. Herbs, spices, and medicinal plants: Recent advances in botany, horticulture, and pharmacology. Vol. 1. Oryx Press, Phoenix
- Dill, N. H., A. O. Tucker, N. E. Seyfried, and R. F. C. Naczi. 1987. Atlantic white cedar on the Delmarva Peninsula. Pages 41-55 in A. D. Laderman, ed. Atlantic white cedar wetlands. Westview Press, Denver, Colorado.
- Tucker, A. O., and B. M. Lawrence. 1987. Botanical nomenclature of commercial sources of essential oils, concretes, and absolutes. Pages 183-240 in L. E. Craker and J. E. Simon, eds. Herbs, spices, and medicinal plants: Recent advances in botany, horticulture, and pharmacology. Vol. 2. Oryx Press, Phoenix.
- Seyfried, N. E., J. L. Outten, A. O. Tucker, and N. H. Dill. 1987. Environmental concern and search strategies for rare plants. Pages 131-140 in V. P. Agarwal and S. V. S. Rana, eds. Science, development and environment. Muzaffarnagar, India.
- Tucker, A. O., and M. J. Maciarello. 1988. Nomenclature and chemistry of the Kazanlik damask rose and some potential alternatives from the horticultural trade of North America and Europe. Pages 99-114 in B. M. Lawrence, B. B. Mookherjee, and B. J. Willis, eds. Flavors and Fragrances: A world perspective. Elsevier Sci. Publ., Amsterdam.
- Tucker, A. O. 1988. A musk rose(s) of the Himalayas. Pages 161-166 in V. P. Agrawal and L. D. Chaturvedi, eds. Threatened habitats. Soc. Biosci., Muzaffarnagar, India.
- Tucker, A. O., J. A. Duke, and S. Foster. 1989. Botanical nomenclature of medicinal plants. Pages 169-242 in L. E. Craker and J. E. Simon, eds. Herbs, spices, and medicinal plants: Recent advances in botany, horticulture, and pharmacology. Vol. 4. Oryx Press, Phoenix.
- Tucker, A. O., and M. J. Maciarello. 1993. Shelf life of culinary herbs and spices. pages 469-485 in G. Charalambous, ed. Shelf life studies of foods and beverages. Elsevier, Amsterdam.
- Tucker, A. O., and M. J. Maciarello. 1994. Oregano: Botany, chemistry, and cultivation. Pages 439-456 in G. Charalambous, ed. Spices, herbs and edible fungi. Elsevier, Amsterdam.
- Tucker, A. O., and M. J. Maciarello, and C. E. Broderick. 1994. Filé and the essential oil of the leaves, twigs, and commercial root teas of *Sassafras albidum* (Nutt.) Nees (Lauraceae). Pages 595-604 in G. Charalambous, ed. Spices, herbs and edible fungi. Elsevier, Amsterdam.
- Tucker, A. O., and M. J. Maciarello. 1994. Mass spectra of some natural and synthetic flavor and fragrance compounds. Pages 605-656 in G. Charalambous, ed. Spices, herbs and edible fungi. Elsevier, Amsterdam.
- Maciarello, M. J., and A. O. Tucker. 1994. Truffles and truffle volatiles. Pages 729-739 in G. Charalambous, ed. Spices, herbs and edible fungi. Elsevier, Amsterdam.
- Tucker, A. O., S. G. Kunst, F. Vrugtman, and L. C. Hatch. 1995. Checklists of ornamental cultivars. Pages 89-140 in P. Trehane, ed. International code of nomenclature for cultivated plants - 1995. Quarterjack Publ., Wimborne, United Kingdom.
- Tucker, A. O., and M. J. Maciarello. 1998. Some toxic culinary herbs in North America. Pages 401-414 in E. T. Contis, C.-T. Ho, C. J. Mussinan, T. H. Parliment, F. Shahidi, and A. M. Spanier, eds. Food flavors: Formation, analysis and packaging influences. Elsevier, Amsterdam.
- Lawrence, B. M., and A. O. Tucker. 2002. The genus *Thymus* as a source of commercial products. Pages 252-262 in E. Stahl-Biskup and F. Sáez, eds. Thyme: The genus *Thymus*. Taylor & Francis, London.
- Lawrence, B., and A. O. Tucker. 2004. Essential oil production and other commercial uses. Pages 78-86 in T. Upson and S. Andrews, The genus *Lavandula*. Roy. Bot. Gard., Kew, Richmond.

- Tucker, A. O., and R. F. C. Naczi. 2007. *Mentha*: An overview of its classification and relationships. Pages 1-39 in B. M. Lawrence, ed. *Mint: The genus Mentha*. CRC Press, Boca Raton, FL.
- Tucker, A. O. 2007. *Mentha*: Economic uses. Pages 519-527 in B. M. Lawrence, ed. *Mint: The genus Mentha*. CRC Press, Boca Raton, FL.
- Tucker, A. O. 2008. The poet's marigold, *Calendula officinalis*. Pages 1-7 in S. Belsinger, ed. *Calendula: Herb of the Year 2008*. Intern. Herb Assoc., Jacksonville, FL.
- Tucker, A. O. 2009. Bay laurel, Grecian bay. Pages 1-13 in S. Belsinger, ed. *Gay (Laurus nobilis): Herb of the Year 2009*. Intern. Herb Assoc., Jacksonville, FL.
- Tucker, A. O. 2010. Dill. Pages 1-10 in S. Belsinger, ed. *Dill (Anethum graveolens L.): Herb of the Year 2010*. Intern. Herb Assoc., Jacksonville, FL.
- Tucker, A. O. 2010. *Armoracia rusticana*. Pages 19 in S. Belsinger, ed. *Horseradish (Armoracia rusticana): Herb of the Year 2011*. Intern. Herb Assoc., Jacksonville, FL.
- Tucker, A. O. 2011. Better living through botanical chemistry. Pages 34-48 in *Roses and other herbs around the world*, Proceedings of the International Herb Association, July 15-19, 2011.
- Singh, R. J., A. Lebeda, and A. O. Tucker. 2011. Medicinal plants—nature's pharmacy. Pages 13-51 in R. J. Singh, ed. *Genetic resources, chromosome engineering, and crop improvement*. Volume 6. Medicinal plants. CRC Press, New York.
- Tucker, A. O., and S. Kitto. 2011. Mint. Pages 703-761 in R. J. Singh, ed. *Genetic resources, chromosome engineering, and crop improvement*. Volume 6. Medicinal plants. CRC Press, New York.
- Tucker, A. O. 2011. *Rosa*. Pages 3-20 in S. Belsinger, ed. *Rose (Rosa)*, Herb of the Year 2012™. Intern. Herb Assoc., Jacksonville, FL.
- Tucker, A. O. 2011. *Rosa*. Pages 6-27 in D. Boutelier, ed. *Roses: 2012 Herb of the Year*. Herb Soc. Amer., Kirtland, OH.
- Tucker, A. O. 2012. *Mentha*. Pages 840, 842 in B. G. Baldwin, D. H. Goldman, D. J. Keil, R. Patterson, T. J. Rosati, and D. H. Wilken, eds. *The Jepson manual: vascular plants of California*. Second ed. Univ. Calif. Press, Berkeley.
- Tucker, A. O. 2012. *Origanum*. Page 850 in B. G. Baldwin, D. H. Goldman, D. J. Keil, R. Patterson, T. J. Rosati, and D. H. Wilken, eds. *The Jepson manual: vascular plants of California*. Second ed. Univ. Calif. Press, Berkeley.
- Tucker, A. O. 2014. Artemisia: A journey from noxious weed to Sauce Béarnaise. Pages 121-149 in K. O'Brien, ed. *Artemisia: Herb of the Year™ 2014*. Intern. Herb Assoc., Jacksonville, FL.
- Tucker, A. O. 2015. A savory family. Pages 1-14 in K. O'Brien, ed. *Savory: Herb of the Year™ 2015*. Intern. Herb Assoc., Jacksonville, FL.
- Tucker, A. O., and S. Belsinger. 2016. Holy mole! Pages 69-82 in K. O'Brien, ed. *Capsicum: Herb of the Year™ 2016*. International Herb Association, Jacksonville, FL.
- Tucker, A. O. 2016. A chile by any other name would taste as hot? Pages 131-170 in K. O'Brien, ed. *Capsicum: Herb of the Year™ 2016*. International Herb Association, Jacksonville, FL.
- Tucker, A. O., and T. DeBaggio. 2017. Cilantro around the world. Pages 3-11 in G. Coleman, ed. *Cilantro and coriander: Herb of the Year™ 2017*. International Herb Association, Jacksonville, FL.
- Tucker, A. O. 2018. Cultivation, cultivars, and chemistry of hops. Pages 9-19 in G. Coleman, ed. *Hops: Herb of the Year™ 2018*. Brewing and beyond. International Herb Association, Jacksonville, FL.

PUBLICATIONS, REFEREED JOURNAL ARTICLES:

- Tucker, A. O., and D. E. Fairbrothers. 1970. Extraction of leaf proteins of *Mentha* (Labiatae) for disc-electrophoresis. *Phytochemistry* 9:139-1403.
- Tucker, A. O., and D. E. Fairbrothers. 1972. *Mentha x gentilis* L. 'Variegata': Nomenclature and viral origin. *Taxon* 21:209-210, 733.
- Tucker, A. O., and S. S. Tucker. 1974. Identification of the "air fern" sold in the United States. *Baileya* 19:114-115.
- Tucker, A. O., R. M. Harley, and D. E. Fairbrothers. 1980. The Linnaean types of *Mentha* (Lamiaceae). *Taxon* 29:233-255.
- Tucker, A. O., M. J. Maciarelo, and J. T. Howell. 1980. Botanical aspects of commercial sage. *Econ. Bot.* 34:16-19.
- Tucker, A. O., and D. E. Fairbrothers. 1981. A euploid series in an F_1 interspecific hybrid progeny of *Mentha* (Lamiaceae). *Bull. Torrrey Bot. Club* 108:51-53.
- Tucker, A. O. 1981. The correct name of lavandin and its cultivars. *Baileya* 21:131-133.
- Tucker, A. O., N. H. Dill, T. D. Pizzolato, and R. D. Kral. 1983. Nomenclature, distribution, chromosome numbers, and fruit morphology of *Oxypholis canbyi* and *O. filiformis* (Apiaceae). *Syst. Bot.* 8:299-304.

- Dill, N. H., and A. O. Tucker. 1983. The Claude E. Phillips Herbarium at Delaware State College. Delaware State Col. Faculty J. 10:14-19.
- Dill, N. H., and A. O. Tucker. 1983. Method to remove soot from herbarium specimens. Taxon 32:708.
- Tucker, A. O., M. J. Maciarello, and J. T. Howell. 1984. A preliminary analysis of some lavender and lavandin cultivars. Perfumer & Flavorist 9(4):49-52.
- Tucker, A. O., M. J. Maciarello, and J. T. Howell. 1984. The effect of sand topdressing and fertilizer on inflorescence and essential oil yield in 'Dutch' lavandin. HortScience 19:526-527.
- Tucker, A. O., and T. DeBaggio. 1984. 'Irene Doyle' lavender. HortScience 19:595.
- Tucker, A. O., and K. J. W. Hensen. 1985. The cultivars and lavender and lavandin. Baileya 22:168-177.
- Naczi, R. F. C., R. J. Driskill, E. L. Pennell, N. E. Seyfried, A. O. Tucker, and N. H. Dill. 1986. New records of some rare Delmarva sedges. Bartonia 52:49-57.
- Tucker, A. O. 1986. Frankincense and myrrh. Econ. Bot. 40:425-433.
- Tucker, A. O., and M. J. Maciarello. 1987. The essential oils of some rosemary cultivars. Flavour & Fragrance J. 1:137-142.
- Tucker, A. O., and S. S. Tucker. 1988. Catnip and the catnip response. Econ. Bot. 42:214-231.
- Kuebel, K. R., and A. O. Tucker. 1988. Vietnamese culinary herbs in the United States. Econ. Bot. 42:413-419.
- Carulli, J. P., A. O. Tucker, and N. H. Dill. 1988. *Aeschynomene rudis* Benth. (Fabaceae) in the United States. Bartonia 54:18-20.
- Tucker, A. O., and E. D. Rollins. 1989. The species, hybrids, and cultivars of *Origanum* (Lamiaceae) cultivated in the United States. Baileya 23:14-27.
- Tucker, A. O., and R. Darke. 1989. Identification of the *Perovskia* sp. (Lamiaceae) cultivated in North America. Baileya 23:54.
- Tucker, A. O., M. E. Poston, and H. H. Iltis. 1989. History of the LCU Herbarium, 1895-1986. Taxon 38:196-203.
- Tucker, A. O., and N. H. Dill. 1989. Nomenclature and distribution of *Eupatorium* x *truncatum*, with comments on the status of *E. resinsum* var. *kentuckiense* (Asteraceae). Castanea 54:43-48.
- Tucker, A. O., and N. H. Dill. 1989. Rafinesque's Florula Delawarica. Bartonia 55:4-14.
- Tucker, A. O., and M. J. Maciarello. 1990. Essential oils of cultivars of Dalmatian sage (*Salvia officinalis* L.). J. Essential Oil Res. 2:139-144.
- Tucker, A. O., and M. J. Maciarello. 1990. The essential oil of *Trichostema dichotomum* L. J. Essential Oil Res. 2:149-150.
- Tucker, A. O., and D. E. Fairbrothers. 1990. The origin of *Mentha* x *gracilis* (Lamiaceae). I. Chromosome numbers, fertility and three morphological characters. Econ Bot. 44:183-213.
- Tucker, A. O., and M. J. Maciarello. 1991. The essential oil of *Calamintha arkansana* (Nutt.) Shinnery. J. Essential Oil Res. 3:125-126.
- Tucker, A. O., M. J. Maciarello, and S. S. Tucker. 1991. A survey of color charts for biological descriptions. Taxon 40:201-214.
- Tucker, A. O., M. J. Maciarello, and L. R. Landrum. 1991. Volatile leaf oils of Caribbean Myrtaceae. II. *Pimenta dioica* (L.) Merr. of Jamaica. J. Essential Oil Res. 3:195-196.
- Tucker, A. O., H. Hendriks, R. Bos, and D. E. Fairbrothers. 1991. The origin of *Mentha* x *gracilis* (Lamiaceae). II. Essential oils. Econ. Bot. 45:200-215.
- Tucker, A. O., M. J. Maciarello, R. P. Adams, L. R. Landrum, and T. A. Zanoni. 1991. Volatile leaf oils of Caribbean Myrtaceae. I. Three varieties of *Pimenta racemosa* (Miller) J. Moore of the Dominican Republic and the commercial bay oil. J. Essential Oil Res. 3:323-329.
- Tucker, A. O., M. J. Maciarello, R. P. Adams, L. R. Landrum, and T. A. Zanoni. 1991. Volatile leaf oils of Caribbean Myrtaceae. III. *Pimenta haitiensis* (Urban) Landrum of the Dominican Republic. J. Essential Oil Res. 3:471-473.
- Tucker, A. O., M. J. Maciarello, and L. R. Landrum. 1992. Volatile leaf oils of Caribbean Myrtaceae. IV. *Pimenta jamaicensis* (Britton & Harris) Proctor of Jamaica. J. Essential Oil Res. 4:93-94.
- Tucker, A. O., M. J. Maciarello, and L. R. Landrum. 1992. Volatile leaf oils of Caribbean Myrtaceae. V. *Pimenta obscura* Proctor of Jamaica. J. Essential Oil Res. 4:195-196.
- Tucker, A. O., M. J. Maciarello, and M. Hill. 1992. *Litsea glaucescens* Humb., Bonpl. & Kunth var. *glaucescens* (Lauraceae): A Mexican bay. Econ. Bot. 46:21-24.
- Tucker, A. O., M. J. Maciarello, and D. McCrory. 1992. The essential oil of *Micromeria brownei* (Swartz) Benth. var. *pilosiuscula* Gray. J. Essential Oil Res. 4:301-302.
- Tucker, A. O., M. J. Maciarello, and L. R. Landrum. 1992. Volatile leaf oils of Caribbean Myrtaceae. VI. *Myrcianthes fragrans* (Sw.) McVaugh of Jamaica. J. Essential Oil Res. 4:313-314.
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- "Perfumes and perfume formulation," Department of Botany, Rutgers University, New Brunswick, NJ, February 11, 1981.
- "Phytogeographical affinities of New Jersey and the Del-Mar-Va Peninsula and the preservation of habitats of endemic, rare, and/or endangered plants," Third Symposium on Endangered and Threatened Plants and Animals of New Jersey, Stockton State College, Stockton, NJ, February 28, 1981.
- "Perfume plants," Delaware Beekeepers, Dover, DE, April 11, 1981.
- "Perfumes and perfume formulation," American Association of University Women, Dover, DE, May 18, 1981.
- "Characteristics of rare plants on the Delmarva Peninsula," Conference on threatened and endangered plants and animals of Maryland, Towson State University, Baltimore, September 4, 1981.
- "Perfumes and perfume formulation," Sussex Gardeners, Rehoboth, DE, November 19, 1981.
- "Herbs," Milford Garden Club, Milford, DE, February 3, 1982.
- "Perfumes and perfume formulation," Montclair Garden Club, Montclair, NJ, March 15, 1982.
- "Historical aspects of conifers and broadleaved evergreens in community forests," Urban Forestry Conference, Delaware State University, Dover, March 20, 1982.
- "Systematics of the genus *Mentha*," class in Systematic Botany, University of Delaware, Newark, March 29, 1982.
- "Delaware: The last wildflower garden," Wildflower Symposium, Delaware Federation of Garden Clubs, Ashland, DE, April 20, 1982.
- "Perfumes and perfume formulation," Newcomers Club, Dover, DE, May 20, 1982.
- "A chemical characterization of cultivated clones of tarragon," American Institute of Biological Sciences, University of Pennsylvania, University Park, PA, August 9, 1982.
- "The origin of *Mentha canadensis* L. (Lamiaceae)," American Institute of Biological Sciences, University of Pennsylvania, University Park, PA, August 11, 1982.
- "Some possible herbs and essential oil plants for the Delmarva Peninsula," Fourth Biennial Research Symposium, Historically Black Land-Grant Colleges and State Universities, Orlando, FL, October 28, 1982.

- "Chemical and agricultural characterization of cultivated clones of tarragon," Fourth Biennial Research Symposium, Historically Black Land-Grant Colleges and State Universities, Orlando, FL, October 29, 1982.
- "Perfumes, herbs, and some possible herbs and essential oil plants for the Delmarva Peninsula," Department of Plant Science, University of Delaware, Newark, DE, March 2, 1983.
- "Herbs," Shawnee Home Extension Club, University of Delaware, Milford, DE, March 14, 1983.
- "The feasibility of growing herbs and essential oil plants on DelMarVa," Delaware Herbalists, Smyrna, DE, March 23, 1983.
- "In search of antique plants," Society of Natural History of Delaware, Dover, DE, June 4, 1983.
- "The feasibility of the cultivation of essential oil plants in America," in "The naturals: Essential oils in fragrance and flavor," New York Botanical Garden, Bronx, NY, June 9, 1983.
- "100 Delaware wildflowers," Delaware Federation of Garden Clubs, Dover, DE, June 15, 1983.
- "In search of antique plants," Delaware Federation of Garden Clubs, Dover, DE, September 12, 1983.
- "Origin of *Mentha canadensis*," Department of Biological Sciences, Rutgers University, New Brunswick, NJ, September 21, 1983.
- "A chemical characterization of cultivated clones of tarragon," Department of Biological Sciences, Rutgers University, New Brunswick, NJ, September 21, 1983.
- "In quest of *Oxypolis canbyi*," Society of Natural History of Delaware, University of Delaware, Newark, DE, October 17, 1983.
- "Perfumes and perfume formulation," Mendham Garden Club, Mendham, NJ, October 18, 1983.
- "Perfumes and perfume formulation," Officer's Wives Garden Club, Dover Air Force Base, Dover, DE, November 15, 1983.
- "Perfumes and perfume formulation," Watnong Garden Club, Morristown, NJ, October 28, 1983.
- "Natural sources of perfumes and some economic implications for biotechnology," DNA Plant Technology, Cinnaminson, NJ, January 27, 1984.
- "Herbs," Smyrna Garden Club, Smyrna, DE, February 21, 1984.
- "Herbs," Delaware Cooperative Extension, Dover, DE, March 8, 1984.
- "Rare and endangered flora of Delaware," Wilmington Garden Club, Coatesville, PA, April 2, 1984.
- "Herbs, culture and uses," All Seasons Garden Center, Dover, DE, May 10, 1984.
- "The fine art of perfumery," two workshops, Smithsonian Institution, Washington, DC, May 12, 1984.
- "Flora of field and forest," a field trip at Bombay Hook Field Day, Bombay Hook National Wildlife Refuge, May 19, 1984.
- "Natural sources of perfumes," 1984 Joint Field Meeting of the Northeastern Section of the Botanical Society of America, Torrey Botanical Club, and Philadelphia Botanical Club, Salisbury State College, Salisbury, MD, June 20, 1984.
- "Box huckleberry at Bethel, and Trussum Pond," field trips for the 1984 Joint Field Meeting of the Northeastern Section of the Botanical Society of America, Torrey Botanical Club, and Philadelphia Botanical Club, Salisbury State College, Salisbury, MD, June 20, 1984.
- "100 Delaware wildflowers," 1984 Joint Meeting of the Northeastern Section of the Botanical Society of America, Torrey Botanical Club, and Philadelphia Botanical Club, Salisbury State College, Salisbury, MD, June 20, 1984.
- "Orchids of Delmarva," Orchid Hobbyists of Delmarva, Seaford, DE, September 9, 1984.
- "In search of antique plants," Northern New Jersey Unit, Herb Society of America, Westfield, NJ, September 13, 1984.
- "The effect of sand topdressing and fertilizer on inflorescence and essential oil yield on 'Dutch' lavender," Fifth Biennial Research Symposium, Historically Black Land-Grant Colleges and State Universities, Dallas, TX, October 25, 1984.
- "A chemical and morphological analysis of cultivars of lavender and lavandin," Fifth Biennial Symposium, Historically Black Land-Grant Colleges and Universities, Dallas, TX, October 25, 1984.
- "Natural and synthetic sources of perfumes," Life Sciences Club, Delaware State University, Dover, DE, December 6, 1984.
- "Rare and endangered flora of Delmarva," Delaware Ornithological Society, Delaware Museum of Natural History, Greenville, DE, October 17, 1984.
- "Chemical variation in some herbs: mint, lavender, and tarragon," Shippensburg University, Shippensburg, PA, February 21, 1985.
- "Natural sources of perfumes," Shippensburg University, Shippensburg, PA, February 21, 1985.
- "Rare and endangered flora of Delmarva," Col. Haslet Chapter, National Society, Daughters of the American Revolution, Dover, DE, March 11, 1985.
- "In search of antique plants," Spade and Trowel Garden Club, Seaford, DE, March 12, 1985.

- "The fine art of perfumery," two workshops, Smithsonian Institution, Washington, DC, May 11, 1985.
- "The Claude E. Phillips Herbarium," Conservation Fair, Lums Pond State Park, September 14, 1985.
- "In search of antique plants," Milford Garden Club, Milford, DE, October 2, 1985.
- "Finding antique plants: ornamentals," Symposium on Your Old Garden, Pennsbury Manor, Morrisville, PA, October 10, 1985.
- "Nomenclature, chemistry, and agronomy of the Kazanlik damask rose and some potential alternatives," Sixth Association of Research Directors Research Symposium, Atlanta, GA, October 22, 1985.
- "In search of antique plants," Delaware Indoor Light Garden Society, Wilmington, DE, December 3, 1985.
- "Natural and synthetic sources of perfumes," Dept. of Botany, Howard University, Washington, D.C., January 27, 1986.
- "Evolution and Religion," Awareness Circle, Peoples United Church of Christ, Dover, DE, March 26, 1986.
- "Oregano and sage," American Chemical Society, 191st National Meeting, New York, April 16, 1986.
- "Herbs: Cultural and historical background," All Seasons Nursery and Garden Center, Dover, DE, April 30, 1986.
- "Urban gardens in small spaces," Delaware Avenue Community Association, St. Stephen's Lutheran Church, Wilmington, DE, May 13, 1986.
- "Saving antique plants," Queen Henrietta Maria's Festival of Roses & Mayflowers, William Paca House, Annapolis, MD, May 29, 1986.
- "Production session V: Plant identification," First National Herb Growing and Marketing Conferences, Purdue University, West Lafayette, IN, July 23, 1986.
- "Botanical nomenclature and agronomic management of selected culinary herbs," Northern New Jersey Unit, Herb Society of America, Morristown, NJ, August 14, 1986.
- "Botanical nomenclature of culinary herbs: Some case studies," Dept. of Plant Science, University of Delaware, Newark, DE, September 8, 1986.
- "Go wild with wildflowers," Central Atlantic Regional Conference of National Council of State Garden Clubs, Hotel DuPont, Wilmington, DE, October 21, 1986.
- "Herbs: identification and agronomic management," Peninsula Horticultural Society Greenhouse Session, Wicomico Youth and Civic Center, Salisbury, MD, November 11, 1986.
- "Nomenclature and chemistry of the Kazanlik damask rose and some potential alternatives from the horticultural trade of North America and Europe," 10th International Congress of Essential Oils, Fragrances & Flavors, Omni-Shoreham Hotel, Washington, DC, November 17, 1986.
- "Saving antique plants," Seminar on Garden Restoration and Preservation, The Garden Club of New Jersey, East Brunswick, NJ, March 9, 1987.
- "Natural sources of perfumes," Garden Club of Mt. Tabor, Mt. Tabor, NJ, April 16, 1987.
- "Natural sources of perfumes," class in Economic Plants, Rutgers University, New Brunswick, NJ, April 13, 1987.
- "Roses, rosemaries, and lavenders," Dept. of Biological Sciences, Rutgers University, Piscataway, NJ, April 13, 1987.
- "Natural sources of perfumes," Friends of the Herbarium, Dept. of Biology, University of North Carolina, Chapel Hill, NC, April 27, 1987.
- "A potpourri of culinary herbs: Nomenclature and cultivation," Herb Volunteers, North Carolina Botanical Garden, Chapel Hill, NC, April 28, 1987.
- "Herbs," Bicentennial Village Garden Club, Dover, DE, May 19, 1987.
- "Herb clinic," Baltimore Herb Festival, Baltimore, MD, May 23, 1987.
- "A collection of fragrant flowers," Queen Henrietta Maria's Festival of Roses & Mayflowers, William Paca House, Annapolis, MD, May 28, 1987.
- "Oregano identification," McCormick, Hunt Valley, MD, June 11, 1987.
- "Trends in the U.S. importation of spices," Second National Herb Growing and Marketing Conference, Indianapolis, IN, July 20, 1987.
- "Perfume workshop," Second National Herb Growing and Marketing Conference, Indianapolis, IN, July 20 & 22, 1987.
- "Natural sources of perfumes," Horticultural Society, Indianapolis Museum of Art, Indianapolis, IN, July 21, 1987.
- "Preservation of cultivated plants," Conservation & Ecology Symposium, Delaware Landscape Design Critics Council & Delaware Federation of Garden Clubs, Odessa, DE, September 10, 1987.
- "Plants for drying and decoration," walk for 50th Anniversary Celebration, Bombay Hook National Wildlife Refuge, DE, November 1, 1987.
- "In search of antique plants," Diamond State Iris Society, Dover, DE, November 21, 1987.
- "Herbaceous plants (perennials & herbs)," Master Gardeners, Milford, DE, December 2, 1987.

- "Saving antique plants," Cabbages and Kings, Vicmead Hunt Club, Centerville, DE, January 18, 1988.
- "Herb growing and marketing," Delaware Horticulture Industry Expo, Sheraton Inn, Dover, DE, January 20, 1988.
- "Natural sources of perfumes," Philadelphia Botanical Club, Academy of Natural Sciences of Philadelphia, March 24, 1988.
- "Saving antique plants," Federated Garden Clubs of Maryland, Maryland Dept. of Agriculture, Annapolis, MD, April 7, 1988.
- "Saving antique plants," Smyrna Garden Club, Smyrna, DE, April 16, 1988.
- "Conservation of ornamental plants," Washington Botanical Club, Smithsonian Institution, Washington, D.C., May 3, 1988.
- "Saving antique plants," Potpourri Garden Club, Dover, DE, May 9, 1988.
- "Herbs," All Seasons Garden Center, Dover, DE, May 21, 1988.
- "Perfume workshop," Herbs 88, Baton Rouge, LA, June 20, 22, 1988.
- "Herbs," Master Gardeners, Milford, DE, June 28, 1988.
- "Drying herbs with a low capital investment," Third National Herb Growing and Marketing Conference, Louisville, KY, July 12, 1988.
- "Plants for drying and decoration," walk for Bombay Hook Field Day, Bombay Hook National Wildlife Refuge, DE, October 16, 1988.
- "Heirloom plants," The Hardy Plant Society, Berwyn, PA, November 20, 1988.
- "Herbaceous plants (perennials & herbs)," Master Gardeners, Milford, DE, November 30, 1988.
- "Natural sources of perfumes," Milford Gardening Club, Milford, DE, January 4, 1989.
- "Preservation of antique Plants," Second Annual Delaware Master Gardener Conference, Dover, DE, March 3, 1989.
- "Saving antique plants," District II Federated Garden Clubs of Maryland, Annapolis, MD, March 10, 1989.
- "In search of antique plants," Wave Hill, Bronx, NY, March 28, 1989.
- "Perfume workshop," Rosemary House, Mechanicsburg, PA, April 3, 1989.
- "Old roses," Northern New Jersey Unit, Herb Society of America, Mendham, NJ, April 13, 1989.
- "Herbs," Academy of Lifelong Learning, University of Delaware, Milford, DE, May 11, 1989.
- "In search of antique plants," Eckley Miners' Village, Weatherly, PA, May 14, 1989.
- "Natural sources of perfumes," Back Gate Garden Club, Wilmington, DE, September 6, 1989.
- "Searching for antique ornamentals," Gardening for Pleasure in the South, Seventh Conference on Restoring Southern Gardens and Landscapes, Old Salem, NC, October 5-7, 1989.
- "Saving and using antique ornamental plants," Gardening for Pleasure in the South, Seventh Conference on Restoring Southern Gardens and Landscapes, Old Salem, NC, October 5, 1989.
- "Locating and authenticating antique ornamental plants," Gardening for Pleasure in the South, Seventh Conference on Restoring Southern Gardens and Landscapes, Old Salem, NC, October 6&7, 1989.
- "Cultivars of sage and their potential for agronomic utilization," Eighth Biennial Research Symposium, Association of Research Directors, Arlington, VA, October 11, 1989.
- "Herbs," Academy of Lifelong Learning, Wilcastle Center, Wilmington, DE, October 25, 1989.
- "Saving antique plants," Academy of Lifelong Learning, University of Delaware Milford Center, Milford, DE, October 31, 1989.
- "Saving antique plants," Lutherville Garden Club, Baltimore, MD, November 2, 1989.
- "Saving antique plants," Homeland Garden Club, Baltimore, MD, November 13, 1989.
- "Perfume workshop," Caesar Rodney Jr. High School, Camden, DE, February 28, 1990.
- "Be a Del-Mar-Va plant hunter." Earth Week Workshop, Delaware State University, Dover, DE, March 3, 1990.
- "Perfume workshop," Sandy Hollow Herb Co., Wilmington, DE, March 24, 1990.
- "Where have all the wildflowers gone?" Bombay Hook Earth Day Celebration, DE, April 21, 1990.
- "Locating and authenticating antique plants," Historic Garden Workshop, Association of Living Historical Farms & Agricultural Museums, Old Sturbridge Village, MA, June 17, 1990.
- "Antique plants," Recreating Ornamental Gardens Session, Association of Living Historical Farms & Agricultural Museums, Brown University, Providence, RI, June 18, 1990.
- "Saving antique plants," Biennial Northeast Regional Master Gardener Conference, University of Delaware, Newark, DE, October 11, 1990.
- "The use of essential oils in phylogenetic analysis and cultivar identification," Dept. of Horticulture, Purdue University, West Lafayette, IN, October 18, 1990.
- "Herbaceous plants (perennials & herbs)," Master Gardeners, Milford, DE, November 5, 1990.
- "Herbaceous perennials," Milford Gardening Club, Milford, DE, November 7, 1990.
- "Plant diversity," Smyrna Middle School, Smyrna, DE, November 26, 1990.
- "History and scents of old roses," Scott Arboretum, Swarthmore, PA, February 22, 1991.

- "In search of antique plants," Strawberry Banke, Portsmouth, NH, February 23, 1991.
- "Antique roses," Old Sturbridge Village, Sturbridge, MA, June 8, 1991.
- "Antique roses, a walking tour," Old Sturbridge Village, Sturbridge, MA, June 8, 1991.
- "All we ever needed to know my grandmother taught us *Kindern* in her *Garten*," Herb Society of America, East Lansing, MI, June 28, 1991.
- "So many mints, so little time," Sixth National Herb Growing and Marketing Conference, Minneapolis, MN, July 21, 1991.
- "Bringing back the old varieties: In search of antique plants," Sixth National Herb Growing and Marketing Conference, Minneapolis, MN, July 21, 1991.
- "The uses and limitations of the literature: Lists, manuals, and floras for the northeast," Native Plants in the Landscape, Millersville University, Millersville, PA, August 16, 1991.
- "In search of antique plants," Floriculture Lecture, Cornell University, Ithaca, NY, September 19, 1991.
- "Ethnic today, trendy tomorrow," Audrey Harness O'Connor Lecture, Cornell Plantations, Cornell University, Ithaca, NY, September 19, 1991.
- "Introduction to plant ID," Master Gardeners, Milford, DE, September 16, 1991.
- "Herbaceous plants (perennials & herbs)," Master Gardeners, Milford, DE, October 23, 1991.
- "Antique plants for today's gardens," Landscape Design in America, National Wildlife Federation, Vienna, VA, November 13, 1991.
- "Flavor and fragrance plants: An untapped resource," Arnold Arboretum, Jamaica Plain, MA, January 28, 1992.
- "Flavor and fragrance plants: An untapped resource," National Wildlife Federation, Vienna, VA, January 30, 1992.
- "Flavor and fragrance plants: An untapped resource," The New York Botanical Garden, Bronx, NY, February 1, 1992.
- "Heirloom plants for today's gardens," Professional Gardener Alumni Association, Longwood Gardens, Kennett Square, PA, February 7, 1992.
- "Preservation of cultivated plants," Department of Plant and Soil Sciences, University of Delaware, Newark, DE, February 20, 1992.
- "Carnivorous pinelands plants," Third Annual Pinelands Short Course, Rutgers University, New Brunswick, NJ, March 7, 1992.
- "In search of antique plants," Michigan Herb Associates Herb Conference, Michigan State University, East Lansing, MI, March 25, 1992.
- "Natural sources of perfumes," Michigan Herb Associates Herb Conference, Michigan State University, East Lansing, MI, March 25, 1992.
- "Ethnic herbs," Earthwise Gardening, Master Gardener Program, Michigan State University, East Lansing, MI, March 26, 1992.
- "In search of antique plants," Center for Continuing Education, Delaware State University, Dover, DE, April 23, 1992.
- "Natural sources of perfumes," Tenth Annual Herb Day, South Texas Unit, Houston, TX, April 25, 1992.
- "Preparation of essential oils, concrètes, and absolutes," Tenth Annual Herb Day, South Texas Unit, Houston, TX, April 25, 1992.
- "Four square mints a day: Musings on the herbs called 'Ment' and 'Balsem,'" Landis Valley Museum, Lancaster, PA, May 8, 1992.
- "Everything I ever needed to know my Pennsylvania German grandmother taught us *Kindern* in her *Garten*: In search of antique plants." Landis Valley Museum, Lancaster, PA, May 9, 1992.
- "Herbs," Elderhostel, Virden Center, University of Delaware, Lewes, DE, May 11, 1992.
- "In search of antique plants," Rockwood Museum, Wilmington, DE, May 13, 1992.
- "Perfume workshop," All Seasons Garden Center, Dover, DE, May 18, 1992.
- "Some problem herbs," Eden Hill, Dover, DE, June 1, 1992.
- "Old roses," Elderhostel, Virden Center, University of Delaware, Lewes, DE, June 4, 1992.
- "Perfume workshop," Country Garden Herb Farm, Millington, MD, June 30, 1992.
- "Plant identification," Master Gardeners, Milford, DE, September 21, 1992.
- "The essential oil of 'Citrosa,'" Ninth Biennial Research Symposium, Association of Research Directors, Atlanta, GA, October 6, 1992.
- "The essential oils of new American, European, and Asiatic herbs on the U.S. market," Ninth Biennial Research Symposium, Association of Research Directors, Atlanta, GA, October 7, 1992.
- "Antique plants for modern cottage gardens," Agecroft, Richmond, VA, October 15, 1992.
- "Colonial herbs," Symposium on 18th Century Colonial Herbs and Their Modern-Day Uses, Potomac Unit, Herb Society of America, Vienna, VA, October 24, 1992.
- "Perennials and herbs," Master Gardeners, Milford, DE, November 4, 1992.

- "Natural sources of perfumes," Fall Festival of Roses, The Antique Rose Emporium, Brenham, TX, November 7, 1992.
- "Herbs: Culture and landscape uses," Fall Festival of Roses, The Antique Rose Emporium, Brenham, TX, November 8, 1992.
- "Perfume workshop," Rosemary House, Mechanicsburg, PA, November 11, 1992.
- "Herbaceous perennials," Master Gardeners, University of Delaware, Newark, DE, December 2, 1992.
- "Discovering and preserving antique plants: Locating old Eastern Shore gardens," Queen Anne's Co. Garden Club, Centreville, MD, January 11, 1993.
- "Natural sources of perfumes," Maryland Herb Association, Annapolis, MD, January 18, 1993.
- "Natural sources of perfumes," Virginia Herb Growers & Marketers Association, Charlottesville, VA, February 12, 1993.
- "Ethnic today, trendy tomorrow," Virginia Herb Growers & Marketers Association, Charlottesville, VA, February 12, 1993.
- "Herbs and the limited resource farmer," Profiting from a Few Acres, University of Delaware, Newark, DE, February 16, 1993.
- "100 Delaware wildflowers," Master Gardener Shortcourse, Dover, DE, March 16, 1993.
- "In search of antique plants in the Eastern U.S.," Huntington, San Marino, CA, March 20, 1993.
- "In search of antique plants," Horticultural Inspection Society, Eastern Chapter, Dover, DE, March 30, 1993.
- "The days of roses," Northern New Jersey Unit, Herb Society of America, Frelinghuysen Arboretum, Morristown, NJ, April 8, 1993.
- "In search of antique plants," Berks County Horticulture Club, Reading, PA, April 13, 1993.
- "Perfume workshop," Spoutwood Farm, Glen Rock, PA, April 23, 1993.
- "Natural sources of perfumes," Department of Botany, University of Maryland, College Park, MD, April 28, 1993.
- "Cottage gardening with antique plants," garden tour, Rosemary House, Camden, DE, May 10, 1993.
- "Cottage gardening with antique plants," garden tour, Sprig & Twig Garden Club, Camden, DE, May 12, 1993.
- "Cottage gardening with antique plants," garden tour, New Castle Master Gardeners, Camden, DE, June 2, 1993.
- "Introduction to plant ID," Master Gardeners, Milford, DE, September 20, 1993.
- "Perfume workshop," Sandy Hollow Herb Co., Wilmington, DE, October 23, 1993.
- "Herbs," Milford Garden Club, October 30, 1993.
- "Herbaceous plants (perennials & herbs)," Master Gardeners, Milford, DE, November 8, 1993.
- "Everything I ever needed to know my Pennsylvania German grandmother taught us *Kindern* in her *Garten*: In search of antique plants." Portage Co. Garden Club, Rootstown, OH, November 16, 1993.
- "Perfume workshop," Illinois Herb Association, St. Charles, IL, January 8 & 9, 1994.
- "Lavenders, mints, marjoram, rosemaries, and other confusing names," North American Farmers' Direct Marketing Conference/Illinois Specialty Growers Show/Illinois Herb Association, St. Charles, IL, January 10, 1994.
- "Ethnic today, trendy tomorrow," North American Farmers' Direct Marketing Conference/Illinois Specialty Growers Show/Illinois Herb Association, St. Charles, IL, January 10, 1994.
- "Energy and capital-efficient practices for drying of herbs," North American Farmers' Direct Marketing Conference/Illinois Specialty Growers Show/Illinois Herb Association, St. Charles, IL, January 10, 1994.
- "Herbs and the limited resource farmer," Profiting from a Few Acres, University of Delaware, Newark, DE, February 3, 1994.
- "The origins, names, and scents of heritage roses," Green Fingers Garden Club, Galena, MD, March 10, 1994.
- "Botanical & horticultural research at Delaware State University: Floristics, flavor & fragrance plants, biotechnology," Delaware Academy of Science, University of Delaware, Newark, DE, April 23, 1994.
- "Cottage gardening with antique plants," garden tour, Old Dover Days, Camden, DE, April 30, 1994.
- "In search of antique plants," Fifth Annual Zwaanendael Heritage Garden Tour, Lewes, DE, June 18, 1994.
- "Native American herbs of flavor and fragrance," The Herb Society of America, Pennsylvania State University, State College, PA, June 24, 1994.
- "Perfume workshop," Herbal Delights, Reading, PA June 27, 1994.
- "Monsieur Piesse' A first person interpretation of a Victorian perfumer," Herbal Delights, Reading, PA, June 27, 1994.
- "Perfume workshop," Kindred Spirits, Dover, DE, July 16, 1994.
- "Sassafras, hoja santa/acuyo, epazote and shiso: Herbs of potential danger," Tenth Biennial Research Symposium, Association of Research Directors, New Orleans, LA, October 4, 1994.
- "In search of antique plants," Antique Rose Emporium, Brenham, TX, November 5, 1994.

- "In search of antique plants," Potomac Unit, American Iris Society, National Arboretum, Washington, DC, November 6, 1994.
- "Fresh cut herbs as a greenhouse crop," Third Annual Delmarva Greenhouse Growers Program and Trade Show, Maryland National Guard Armory, Easton, MD, February 1, 1995.
- "Natural sources of perfumes," Parents Without Partners, Dover, DE, March 6, 1995.
- "Natural sources of perfumes," Lebanon County Flower Club, Cornwall, PA, March 14, 1995.
- "In search of antique plants," Historic Yellow Springs, Chester Springs, PA, March 16, 1995.
- "Toxic culinary herbs at your own risk: Sassafras, *hoja santa*, California bay, perilla, pink/red peppercorns, and *epazote*." Department of Plant and Soil Sciences, University of Delaware, Newark, DE, April 11, 1995.
- "Ethnic today, trendy tomorrow," PA Herb Business Network, Landis Valley Farm Museum, Lancaster, PA, April 24, 1995.
- "Monsieur Piesse' A first person interpretation of a Victorian perfumer," PA Herb Business Network, Landis Valley Farm Museum, Lancaster, PA, April 24, 1995.
- "Cottage gardening with antique plants," garden tour, Delaware Valley Rock Garden Society, April 29, 1995.
- "Cottage gardening with antique plants," garden tour, Potpourri Garden Club, Camden, DE, May 8, 1995.
- "DelMarVa/Pa antique plant and rose rustle," Delaware Agricultural Museum and Village, Dover, DE, May 13, 1995.
- "The best of the old: Heirloom varieties of *Dianthus*, *Narcissus*, and *Iris*," Monticello, Charlottesville, VA, May 20, 1995.
- "Propagation and identification of old roses," Monticello, Charlottesville, VA, May 20, 1995.
- "Cottage gardening with antique plants," garden tour, New Castle Co. Master Gardeners, Camden, DE, May 22, 1995.
- "Documenting antique flowers and plants in paintings and the decorative arts," Gunston Hall Plantation, June 16, 1995.
- "Pesto! Pesto! Pesto!" demonstration, Delaware State Fair, Harrington, DE, July 24, 1995.
- "Introduction to plant ID," Master Gardeners, Milford, DE, September 18, 1995.
- "The Myth of the colonial herb garden," Herb Society of America, Delaware Valley College, Doylestown, PA, September 23, 1995.
- "Roses of the perfumers," Northern New Jersey Unit, Herb Society of America, Frelinghuysen Arboretum, Morristown, NJ, October 12, 1995.
- "HSA plant collections," Herb Society of America, Annapolis, MD, October 29, 1995.
- "In search of antique plants," Our Gardening Heritage, Atlanta Botanic Gardens, November 4, 1995.
- "Herbaceous plants (perennials & herbs)," Master Gardeners, Milford, DE, November 6, 1996.
- "Lavender/Lavandin," Long Island Unit, The Herb Society of America, Clark Botanic Garden, Albertson, NY, November 9, 1995.
- "Plants for Yuletide: Their history and use in 18th and 19th century decorations," Genesee Country Museum, Mumford, New York, November 11, 1995.
- "Natural sources of perfumes," Biology Dept., George Washington University, Washington, DC, November 17, 1995.
- "The origin of mint hybrids," Mint Industry Research Council, Bally's, Las Vegas, NV, January 18, 1996.
- "Everything I ever needed to know my Pennsylvania German grandmother taught us *Kindern* in her *Garten*: In search of antique plants." Clackamas Community College, Oregon City, OR, January 27, 1996.
- "Lavender/Lavandin," Tidewater Unit, Herb Society of America, Norfolk Botanical Gardens, Norfolk, VA, March 10, 1996.
- "Toxic culinary herbs at your own risk: Sassafras, *hoja santa*, California bay, perilla, pink/red peppercorns, and *epazote*." Southern Michigan Unit, Herb Society of America, Cranbrook House and Gardens, Detroit, MI, March 16, 1996.
- "In search of antique plants," Cumberland County Historical Society, Carlisle, PA, March 30, 1996.
- "What's in a name? The importance of taxonomic description of botanical products," Drug Information Agency, Washington, DC, April 9, 1996.
- "The origins and scents of heritage roses," Stan Hywet Hall and Gardens, Akron, OH, April 10, 1996.
- "100 Delaware Wildflowers," Sussex Gardeners, Rehoboth, DE, April 18, 1996.
- "Natural sources of perfumes," U. S. Botanic Garden, Washington, DC, May 17, 1996.
- "Identification and propagation of heritage roses," Monticello, Charlottesville, VA, May 25, 1996.
- "Natural sources of perfumes," American Horticultural Society, St. Louis, MO, June 1, 1996.
- "Antique rose and plant rustle," Delaware Agricultural Museum and Village, Dover, DE, June 8, 1996.
- "Survival roses for DelMarVa," Milford Heritage Festival, Milford, DE, June 22, 1996.
- "HSA plant collections," Northern New Jersey Unit, Herb Society of America, Morristown, NJ, September 12, 1996.

- "Natural sources of perfumes," Texas Herb Growers & Marketers Association, Houston, TX, September 20, 1996.
- "Toxic culinary herbs," Texas Herb Growers & Marketers Association, Houston, TX, September 21, 1996.
- "Natural sources of perfumes," 67th Annual Fall Board Meeting, National Council of State Garden Clubs, Wilmington, DE, October 11, 1996.
- "In search of antique plants," Green Spring Gardens Park, Alexandria, VA, October 20, 1996.
- "Myths of Colonial herb gardens," Myths & Facts of Colonial Herb Gardens, New England Unit, Herb Society of America, Waltham, MA, October 26, 1996.
- "A visit from Monsieur Piesse," Heirloom Plant Symposium, New Orleans Botanical Garden, New Orleans, LA, November 6, 1996.
- "Access to information on medicinal plants," Delaware Chapter's Women Conference, National Multiple Sclerosis Society, Delaware State University, November 23, 1996.
- "Genetics of mint oils," Mint Industry Research Council, Bally's, Las Vegas, NV, January 23, 1997.
- "Plant names," Eastern Winter Study Weekend, North American Rock Garden Society, Valley Forge, PA, January 25, 1997.
- "Plant names," Delaware Valley Chapter, North American Rock Garden Society, Swarthmore, PA, February 8, 1997.
- "Lavender," Small Farming in Western Washington, Cooperative Extension, Washington State University, Fort Worden Conference Center, Port Townsend, WA, February 23, 1997.
- "In search of antique plants," Virginia Herb Association, Richmond, VA, February 28, 1997.
- "Lavender, mint, marjoram, rosemary and other confusing names," Virginia Herb Association, Richmond, VA, March 1, 1997.
- "In search of antique plants," Moonflower Garden Club, Red Clay Presbyterian Church, Wilmington, DE, March 10, 1997.
- "Ethnic today, trendy tomorrow," Herbs for All Reasons, Hilltop Arboretum, Baton Rouge, LA, March 15, 1997.
- "The myth of the Colonial herb garden," Living History Congress, University of Delaware, Newark, DE, April 6, 1997.
- "Natural sources of perfumes," Scents and Sensibility, New York Unit, The Herb Society of America, Wave Hill, Bronx, New York, April 10, 1997.
- "Myths of the Colonial herb garden," Horticultural Consortium of the Greater Washington Area, National Arboretum, Washington, DC, April 23, 1997.
- "Historical medicinal plants and modern research," Delaware Herb Festival, Delaware Agricultural Museum and Village, Dover, DE, June 7, 1997
- "The genus *Mentha* and the origin of mint hybrids," The Herb Society of America, Renaissance Denver Hotel, Denver, CO, June 13, 1997.
- "Historical medicinal plants and modern research," International Herb Association, Tara Ferncroft Hotel, Danvers, MA, July 12, 1997.
- "Historical medicinal plants and modern research," Nineteenth Great Lakes Herb Symposium, Capital University, Bexley, OH, July 16, 1997
- "Lavender/lavandin," Sequim Community Center, Sequim, WA, August 13, 1997.
- "Peonies, pinks & primroses," Historic Plants Symposium, Monticello, Charlottesville, VA, August 16, 1997.
- "Plant names," Maryland Horticultural Society, Baltimore, MD, September 9, 1997.
- "In search of antique plants," North Carolina Unit, Herb Society of America, Greensboro, NC, September 18, 1997.
- "Natural sources of perfumes," Delaware Herbalists, Newark, DE, September 23, 1997.
- "The origin of *Mentha canadensis*," Eleventh Biennial Research Symposium, Association of Research Directors, San Antonio, TX, October 3, 1997.
- "The origins, names, and scents of the heritage roses," Mid-Atlantic Symposium, The Herb Society of America, Annapolis, MD, October 25, 1997.
- "Introduction to plant ID," Master Gardeners, Dover, DE, September 22, 1997.
- "Herbaceous plants (perennials & herbs)," Master Gardeners, Dover, DE, November 5, 1997.
- "Of mice and mints," Potomac Unit, Herb Society of America, National Arboretum, Washington, DC, January 21, 1998
- "The myth of the Colonial herb garden," Brandywine Battlefield, Chadds Ford, PA, February 5, 1998
- "They sowed with English seeds of all sorts': The introduction of exotic plants along the Chesapeake 1634-1810," The Maritime Influence in Annapolis," Cultural Heritage Alliance 1998 Winter Lecture Series, Maryland Hall for the Creative Arts, Annapolis, MD, February 24, 1998.
- "Natural sources of fragrance," Delaware Center for Horticulture, Wilmington, DE, February 25, 1998.

- "Modern research of historical medicinal plants—The facts behind the myths." Round Top Herb Festival, Round Top, TX, March 28, 1998.
- "'They sowed with English seeds of all sorts': The introduction of exotic plants along the Chesapeake and Delaware 1634-1810," Delaware Museum of Natural History, Wilmington, DE, April 18, 1998.
- "A walk through the herb garden," Delbarton School, Morristown, NJ, May 9, 1998
- "Lavender: Taxonomy and fragrance," Herb Society of America, Baton Rouge, LA, May 15, 1998.
- "Botanical chemical factories: Research into plants of flavor, fragrance & medicine at Delaware State University," Capital City Rotary Club, Dover, DE, May 28, 1998.
- "De-mystifying the plant collection," HSA Northeast District Gathering, Marist College, Poughkeepsie, NY, August 8, 1998.
- "Perfume workshop," Herb Days at Callaway Gardens, Pine Mountain, GA, August 28, 1998.
- "Of mice and mints," Herb Days at Callaway Gardens, Pine Mountain, GA, August 29, 1998.
- "The myth of Colonial herb gardens," Ozark Folk Center, Mountain View, AR, October 2, 1998.
- "Natural Sources of perfumes," Ozark Folk Center, Mountain View, AR, October 3, 1998.
- "Natural Sources of perfumes," Polytech High School, Woodside, DE, October 17, 1998.
- "Natural Sources of perfumes," Minnesota Landscape Arboretum, Chanhassen, MN, October 9, 1998.
- "Cultivars of rosemarys, lavenders, thymes, and mints," 7th Annual West Virginia Herb Association Conference, Jacksons Mill, Weston, WV, October 24, 1998.
- "Historical medicinal plants and modern research," 7th Annual West Virginia Herb Association Conference, Jacksons Mill, Weston, WV, October 25, 1998.
- "Rare, threatened, and endangered species in Delaware and the Claude E. Phillips Herbarium," Mt. Cuba Center for the Study of Piedmont Flora, Greenville, DE, October 29, 1998.
- "Lavender - 1999 Herb of the Year," South Jersey Unit, Herb Society of America, Glassboro, NJ, November 8, 1998.
- "Creating herbal mini-troughs," Celebrate with Herbs Conference '99, Delaware Herb Growers & Marketers Association, Dover, DE, March 6, 1999.
- "Lavender, taxonomy and fragrance," Michigan Herb Associates Twelfth Annual Conference, Michigan State University, East Lansing, MI, March 10, 1999.
- "Myths of the Colonial herb garden," Michigan Herb Associates Twelfth Annual Conference, Michigan State University, East Lansing, MI, March 10, 1999.
- "Ethnic today, trendy tomorrow," Michigan Herb Associates Twelfth Annual Conference, Michigan State University, East Lansing, MI, March 11, 1999.
- "Lavender: The many faces of the 'Herb of the Year,'" Long Island Unit, Herb Society of America, The Old Field Club, Stony Brook, NY, March 25, 1999.
- "In search of antique plants," Connecticut Horticultural Society, West Hartford, CT, April 15, 1999.
- "Perfume workshop," Well-Sweep Herb Farm, Port Murray, NJ, April 17, 1999.
- "So many mints, so little thyme," 15th Annual Herbs Galore, Maymont, Richmond, VA, April 24, 1999.
- "The myth of the Colonial herb garden," 15th Annual Herbs Galore, Maymont, Richmond, VA, April 24, 1999.
- "The origins, names & scents of heritage roses," 11th Annual Heritage Herb Spring Extravaganza, Ozark Folk Center, Mountain View, AR, May 7, 1999.
- "Herbs: culture & landscape uses," 11th Annual Heritage Herb Spring Extravaganza, Ozark Folk Center, Mountain View, AR, May 8, 1999.
- "Walk and talk about herbs," Delaware Herb Festival, Delaware Agricultural Museum and Village, Dover, DE, May 22, 1999.
- "Lavender/lavandin," Manor at Cool Spring, Milton, DE, June 3, 1999.
- "Linnaeus, nomenclature and herbarium techniques, Native Plants in the Landscape, Millersville University, Millersville, PA, June 11, 1999.
- "History of cultivar preservation, with emphasis on efforts in North America," XVI International Botanical Congress, St. Louis, MO, August 7, 1999.
- "So many mints, so little thyme," University of Delaware Botanic Gardens Friends, Newark DE, September 19, 1999.
- "The myth of the Colonial herb garden," Plans and Plants of the Southern Landscape, Old Salem, Winston-Salem, NC, October 1, 1999.
- "Lavender and rosemary," Ancient Herbs for the New Millennium, Cleveland Botanical Garden, Cleveland, OH, October 9, 1999.
- "Plant identification," Master Gardeners, Kent Co. Extension, Dover, DE, October 18, 1999.
- "Herbaceous plants," Master Gardeners, Kent Co. Extension, Dover, DE, October 20, 1999.
- "Easy slips," Milford Garden Club, St. John's R. C. Church, Milford, DE, January 5, 2000.

- "Thinking out of the box with herbs — What New Herbs Can Make Money in the Greenhouse Market," Maryland Greenhouse Growers' Association, The Association of Specialty Cut Flower Growers, and the University of Maryland Cooperative Extension, Brookside Gardens, Wheaton, MD, February 3, 2000.
- "Potential bee plants for Delaware and their history," Delaware Beekeepers Association, Claude E. Phillips Herbarium, Delaware State University, Dover, DE, March 7, 2000.
- "Garden and herbarium tour," Potomac Unit, Herb Society of America, Camden, DE, April 29, 2000.
- "Garden tour," North American Rock Garden Society, Delaware Valley Chapter, Camden, DE, May 6, 2000.
- "The artist in the garden: Documenting plants through images in arts and crafts," Biggs Museum of American Art, Dover, DE, May 10, 2000.
- "Garden tour," New Castle Co. Master Gardeners, Camden, DE, May 25, 2000.
- "Lavender production in North America," North American Lavender Conference, Sequim High School, Sequim, WA, July 17, 2000.
- "Natural sources of perfumes," Herbs 2000, International Herb Conference, Sheraton Cavalier, Saskatoon, Saskatchewan, Canada, July 19, 2000.
- "Lavender," Herbfest 2000, Canada-Saskatchewan Irrigation Diversification Centre farm, Outlook, Saskatchewan, Canada, July 22, 2000.
- "A fossil in the midst of molecular biologists: The importance of correct botanical, chemical, and processing identification in the study of medicinal plants," Genes, Herbs and Innovative Pharmacy Practice at the "Turn of Century," 45th Annual Ohio Pharmaceutical Seminar, Columbus Marriott Northwest, Dublin, Ohio, September 14, 2000.
- "Lavender/lavandin production in North America: Basics of taxonomy, chemistry, agronomic management, and markets," Lavender 2000, Wagga Wagga, Australia, October 27, 2000.
- "Cultivar selection and lavender production," video teleconference, Field Grown Lavender Production, University of Massachusetts Extension, Amherst, MA, November 8, 2000.
- "Understanding Herbs," Understanding the Mystique of Herbs, Smithsonian Campus on the Mall, Washington, DC, November 17, 2000.
- "Aromatherapy," Understanding the Mystique of Herbs, Smithsonian Campus on the Mall, Washington, DC, November 18, 2000.
- "Herbs 101," Delaware Federation of Garden Clubs, Dover, DE, April 18, 2001.
- "In search of antique plants," Old Economy Village, Ambridge, PA, April 28, 2001.
- "Garden tour," Olde Dover Days, Camden, DE, May 5, 2001.
- "Garden tour," Kent & Sussex Cos. Master Gardeners, Camden, DE, May 18, 2001.
- "Sage, Herb of the Year," Delaware Herb Festival, Delaware Agricultural Museum & Village, Dover, DE, May 19, 2001.
- "In search of antique plants," Delaware State University, Secret Gardens Tour, American Red Cross of the Delmarva Peninsula, June 23, 2001.
- "The Claude E. Phillips Herbarium," Joint Field Meeting of the Botanical Society of America, Northeastern Section; Torrey Botanical Society; and Philadelphia Botanical Club, June 25, 2001.
- "The artist in the garden," AABGA/CBHL/AHTA, Hyatt Regency Denver Downtown, Denver, CO., July 13, 2001.
- "Natural sources of perfumes," 18th Annual Cullowhee Conference 2001, Western Carolina University, Cullowhee, NC, July 26, 2001.
- "American herbs, an untapped resource or problem in conservation?" 18th Annual Cullowhee Conference 2001, Western Carolina University, Cullowhee, NC, July 27, 2001.
- "Considerations for commercial essential oil distillation in West Virginia," La Paix Herb Farm, Alum Bridge, WV, October 7, 2001.
- "Perfume workshop," Triple Oaks, Franklinville, NJ, October 13, 2001.
- "The myth of the Colonial herb garden," Tryon Palace, New Bern, NC, November 10, 2001.
- "Herbs" and "Perennials," Master Gardeners, Dover, DE, November 12, 2001.
- "Natural sources of perfumes," Seaford Garden Club, Seaford, DE, November 13, 2001.
- "The artist in the garden," Delaware Technical & Community College, Dover, DE, April 24, 2002.
- "The artist in the garden," Great Garden Visions, Kykuit, Tarrytown, NY, April 30, 2002.
- "Toxic culinary herbs at your own risk," Microbial Food Safety Research Group, U.S.D.A., Delaware State University, Dover, DE, May 2, 2002.
- "Garden tour," Pennsylvania Heartland Unit and Philadelphia Unit, Herb Society of America, Camden, DE, May 16, 2002.
- "Garden tour," Dover Century Club, Camden, DE, May 22, 2002.

- “Herbarium and greenhouse tour,” Howard Bailey Life Enrichment Program, Delaware State University, Dover, DE, May 24, 2002.
- “Herbarium tour,” DE State Legislators, Delaware State University, Dover, DE, June 6, 2002.
- “Herbarium tour,” Sedges 2002, Delaware State University, Dover, DE, June 6-8, 2002.
- “Herbarium and greenhouse tour, “Gear Up Visit,” Alliance for Minority Participation, Delaware State University, March 20, 2002.
- “Clinical aspects of essential oils,” Intensive Seminar in the Clinical uses of Botanical Medicine, Green Pharmacy, Fulton, MD, July 29, 2002.
- “Return of the native,” Symposium 2002, Thomas Jefferson Center for Historic Plants, Charlottesville, VA, August 17, 2002.
- “Return of the native to North America, or The new Politically Correct xenophobia?” Maryland Invasive Species Council, ARS National Visitor Center, Beltsville, MD, October 15, 2002.
- “The artist in the garden: Documenting Plants Through Images in Arts and Crafts,” Delaware Center for Horticulture, Wilmington, DE, November 13, 2002.
- “Return of the native to North America, or The new Politically Correct xenophobia?” Delaware Valley Chapter of the North American Rock Garden Society, J & J Caterers, Exton, PA, December 14, 2002.
- “The therapy of aroma,” Healing Plants: Medicine/Myth/Magic, University of Delaware, Newark, DE, January 9, 2003.
- “A new look at natives, aliens and invasives,” Plants in the Company of People, Davidson College, Davidson, NC, March 4, 2003.
- “Herbaria to serve the public: A new paradigm,” Thirteenth Biennial Research Symposium Association of Research Directors, Atlanta, GA, April 2, 2003.
- “We must all cultivate our garden: A new look at natives, aliens and invasives,” 57th Garden Symposium, Colonial Williamsburg, VA, April 7, 2003.
- “Return of the Native to North America: The New PC Xenophobia,” Agriculture and Natural Resources “Spring Seminar Series,” Delaware State University, Dover, DE, April 16, 2003.
- “An organoleptic experience with the ocimums,” Ozark Folk Center, Mountain View, AR, May 1, 2003.
- “The garden of Art Tucker, an herbal maniac, featured in Southern Living,” Ozark Folk Center, Mountain View, AR, May 2, 2003.
- “The myth of the Colonial Herb Garden,” The Garden History Society of Williamsburg, Williamsburg Library, Williamsburg, VA, May 20, 2003.
- “Romance of the plants,” Herb Society of America, Portland, OR, June 14, 2003.
- “Growing basil—and other herbs,” Pennsylvania Herb Festival 2003, York Fairgrounds, York, PA, June 28, 2003.
- “Science and romance of roses, ca. 1450 B.C.E. to 1774 C.E.,” Heritage Rose Foundation, Tampa, FL, November 8, 2003.
- “Aromatherapy of roses,” Heritage Rose Foundation, Tampa, FL, November 8, 2003.
- “Herbs” and “Perennials,” Master Gardeners, Kent Co. Extension, Dover, DE, November 10, 2003.
- “Plants of flavor, fragrance & medicine,” Mid-Atlantic Crop Management School, Princess Royale Oceanfront Hotel & Conference Center, Ocean City, MD, November 19, 2003.
- “Evolution of the genus *Mentha*,” Sydney Botanic Gardens, Sydney, New South Wales, Australia, January 7, 2004.
- “Quality assurance of lavender and other aromatics by gas chromatography/mass spectrometry with retention indices,” Ourimbah Campus, University of Newcastle, New South Wales, Australia, January 13, 2004.
- “Herbs to delight the senses,” Behnke’s, Beltsville, MD, February 15, 2004.
- “Natural sources of perfumes,” Mason Dixon Unit, Herb Society of America, York, PA, March 18, 2004.
- “Iconography of the rose: A multi-media presentation to delight & enlighten,” Festival Hill, Round Top, TX, March 27, 2004.
- “Natural sources of perfumes,” Festival Hill, Round Top, TX, March 27, 2004.
- “The therapy of aroma,” Healing Plants: Medicine/Myth/Magic, University of Delaware, Newark, DE, April 13, 2004.
- “Tour of Herbarium, Research Greenhouse, and Herb Research Center,” Chesapeake Bay Herb Society, April 17, 2004.
- “When good herbs go bad,” Delaware Invasive Species Council 5th Annual Meeting, Delaware State University, Dover, DE, April 21, 2004.
- “Tour of Herbarium, Research Greenhouse, and Herb Research Center,” Healing Plants: Medicine/Myth/Magic, University of Delaware, Delaware State University, Dover, DE, April 30, 2004.
- “Myth of the Colonial herb garden,” Northern New Jersey Unit, Herb Society of America, Morristown, NJ, May 8, 2004.

- “Herb basics 101,” Delaware Herb Festival, Delaware Agricultural Museum & Village, Dover, DE, May 15, 2004.
- “Myth of the Colonial herb garden,” North Carolina Unit, Herb Society of America, Port Anne Club House, Williamsburg, VA, May 27, 2004.
- “Return of the native to North America, or The new Politically Correct xenophobia?” Native Plants in the Landscape, Millersville University, Millersville, PA, June 5, 2004.
- “Herbaria: Another way to collect herbs,” The Herb Society of America, Cleveland, OH, June 18, 2004.
- “Highlighting gems in the collections, The Herb Society of America, Cleveland, OH, June 19, 2004.
- “The history of herbs in America,” International Herb Association, Wichita, KS, July 11, 2004.
- “Antique plants for modern gardens,” The World of Gardening, Northwest Louisiana Master Gardeners, October 16, 2004.
- “Growing herbs of the Mediterranean in the Ark-La-Tex,” The World of Gardening, Northwest Louisiana Master Gardeners, October 16, 2004.
- “The therapy of aroma,” The World of Gardening, Northwest Louisiana Master Gardeners, October 16, 2004.
- “Commercial lavender growing around the world,” Delaware Herb Growers & Marketers Association, Delaware State University, October 12, 2004.
- “Herbs,” Chesapeake Bay Herb Society, Adkins Arboretum, Ridgely, MD, February 27, 2005.
- “Will the real potpourri please stand up?” Delaware Cooperative Extension, Delaware State University, Dover, DE, March 31, 2005.
- “Potentially perilous potpourri,” Eastern Plant Board 80th Annual Meeting, Egg Harbor Township, NJ, April 6, 2005.
- “Juvenile literature at the Claude E. Phillips Herbarium,” Professional Development School, University of Delaware/Milford School District, Delaware State University, Dover, DE, April 8, 2005.
- “The therapy of aroma,” Healing Plants: Medicine/Myth/Magic, University of Delaware, Newark, DE, April 12, 2005.
- “Trough construction,” Rosemary House, Delaware State University, Dover, DE, April 19, 2005.
- “Invasive aquarium plants,” Delaware Dept. of Agriculture, Claude E. Phillips Herbarium Delaware State University, Dover, DE, April 28, 2005.
- “Colonial herb gardening,” Cooper House Garden, 15 N. Main St., Camden, DE, Old Dover Days, May 7, 2005.
- “Iconography of roses, ca. 1450 B.C.E. to 1774 C.E.,” Monticello, Charlottesville, VA, May 28, 2005.
- “No vouchers? Junk science!” Rutgers University, New Brunswick, NJ, June 4, 2005
- “The academic phylogeny of David Earl Fairbrothers,” Rutgers University, New Brunswick, NJ, June 4, 2005.
- “A history of herbs,” Herb Society of America, Atlanta, GA, June 11, 2005.
- “Collections of the Claude E. Phillips Herbarium,” Japanese Iris Convention, Dover, DE, June 17, 2005.
- “Imported potpourri: Cause for concern?” AEA/ARD Conference, New Orleans, LA, June 21, 2005.
- “The benefits and cautions of herbs,” Herbal Delights Symposium, Robesonia, PA, June 27, 2005.
- “Herbs of Mexico on your plate: from Badianus to NAFTA,” Focus on Mexico, Frelinghuysen Arboretum, Morristown, NJ, September 25, 2005.
- “The chemistry and ethnobotany of copal resins in Mesoamerica,” Plenary Lecture, The RACI Natural Products chemistry Group Annual One-Day Symposium, Macquarie University, Sydney, October 30, 2005.
- “Lavender taxonomy and preparation of reference specimens, 2nd World Lavender Conference, Mittagong, NSW, Australia, October 1, 2005.
- “The perfume industry of the 1870’s, presented by M. Piesse,” 2nd World Lavender Conference, Mittagong, NSW, Australia, October 2, 2005.
- “Linalool and the EU,” 2nd World Lavender Conference, Mittagong, NSW, Australia, October 2, 2005.
- “Herbaceous plants (perennials & herbs),” Master Gardeners, Delaware State University, Dover, DE, October 26, 2005.
- “The benefits and cautions of herbs,” Behnke’s Nurseries, Beltsville, MD, January 21, 2006.
- “Botanical beads from Africa,” exhibit and workshop, Black History Day at Longwood Gardens, Kennett Square, PA, February 4, 2006.
- “The artist in the garden,” Columbus Museum of Art, Columbus, OH, February 19, 2006.
- “Native plants revisited: The new PC xenophobia,” Lahr Symposium, National Arboretum, Washington, DC, March 25, 2006.
- “The therapy of aroma,” Healing Plants: Medicine/Myth/Magic, University of Delaware, Newark, DE, April 11, 2006.
- “Botanical taxonomy of herbs after Carl Linnaeus,” Herb Society of America, Indianapolis, IN, June 9, 2006.
- “Drying flowers,” Winterthur GardenFair, Winterthur, DE, September 15, 2006.
- “Herbs 101,” Delaware Center for Horticulture, Goodstay, University of Delaware, Wilmington, DE, September 20, 2006.

- “Identification and chemistry of commercial incense copals, copal blanco, copal oro and copal negro, of North America,” U.S. Botanic Garden, Washington, DC, October 26, 2006.
- “Linnaeus’ thoughts on herbs,” Herb Day 2007, University of Illinois Extension, Urbana, IL, January 20, 2007.
- “The pros and cons of medicinal herbs,” Indiana Horticultural Congress, Indianapolis, IN, January 30, 2007.
- “Thinking outside the box with herbs,” Indiana Horticultural Congress, Indianapolis, IN, January 30, 2007.
- “Thinking outside the box with herbs,” Delaware Agritourism Association, Pizzadili Vineyard & Winery, Felton, DE, March 13, 2007.
- “Herbs of Mexico, moles, and more,” The Herb Society of America, Scottsdale, AZ, May 5, 2007.
- “In Search of Antique Plants,” Countryside Garden Club, Delaware State University, Dover, DE, May 17, 2007.
- “Thinking outside the box with Herbs,” International Herb Association, New Glarus, WI, July 14, 2007.
- “The poet’s marigold, *Calendula officinalis*,” International Herb Association, New Glarus, WI, July 15, 2007.
- “Commercial lavender: Taxonomy & essential oils,” 3rd Annual Southwest Lavender Conference, Pojoaque, NM, July 27, 2007.
- “The genus *Lavandula* and commercial lavender growing around the world,” 3rd Annual Southwest Lavender Conference, Pojoaque, NM, July 27, 2007.
- “Herbaceous plants (perennials & herbs),” Master Gardeners, University of Delaware, Georgetown, DE, October 14, 2007.
- “The therapy of aroma,” Fragrance: History, Mystery, and Design, New England Unit, The Herb Society of America, Elm Bank Horticulture Center, Wellesley, MA, October 19, 2007.
- “Herbs 101,” Chestertown Garden Club, Chestertown, MD, January 9, 2008.
- “Potpourri,” 25th Mid-Atlantic Direct Marketing Conference and Trade Show, “Sheraton, Dover, DE, February 6, 2008.
- “Herbs 101,” Dover Century Club Garden Club, Dover, DE, February 13, 2008.
- “Accessing the diversity of germplasm in plants of flavor, fragrance & medicine,” Innovative Technologies Breakfast, Delaware State University, Dover, DE, February 14, 2008.
- “Art in the garden,” Spring & Twig Garden Club, Camden, DE, February 27, 2008.
- “The Peiffer Xylarium wood collection,” Woodcrafters and Forest Appreciation Seminar, Delaware State University, Dover, DE, April 26, 2008.
- “The Claude E. Phillips Herbarium,” Old Dover Days, Dover, DE, May 4, 2008.
- “Botanical and chemical identification at the Claude E. Phillips Herbarium (DOV): No Vouchers? Junk science!” McCormick, Hunt Valley, MD, May 20, 2008.
- “Herbal research, or how to find out as much as you can about your favorite herb,” Herb Society of America, Boston, MA, June 27, 2008.
- “Colonial garden tools and artifacts,” Milton Garden Club Garden Tour, Milton, DE, July 12, 2008.
- “Bay laurel, Herb of the Year 2009,” International Herb Association, Gettysburg, PA, July 19, 2008.
- “Linnaeus and the Botanical Education of Women,” Heritage Harvest Festival, Tufton Farm, Monticello, Charlottesville, VA, September 6, 2008.
- “Transgressive segregation and cytomixis: Important genetic and cytological phenomena in the phenotypic expression of essential oil constituents and patterns in *Mentha* (mint),” Northeast Region, American Society for Horticultural Science, University of Delaware, Newark, DE, January 9, 2009.
- “Accessing the diversity of germplasm in plants of flavor, fragrance & medicine,” Dept. of Biology, Kutztown University, Kutztown, PA, February 12, 2009
- “The chemistry and ethnobotany of copal and copal resins in Mesoamerica,” Dept. of Biology, Kutztown University, Kutztown, PA, February 12, 2009.
- “Thinking outside the box with herbs,” Profiting from a Few Acres, Sheraton Hotel, Dover, DE, February 21, 2009.
- “The importance of Linnaeus and the Quakers in the novel concept of botanical education of women in early 19th century America,” Philadelphia Unit, Herb Society of America, Bryn Mawr, PA, March 11, 2009.
- “Transgressive segregation and cytomixis: Important genetic and cytological phenomena in the phenotypic expression of essential oil constituents and patterns in *Mentha* (mint),” Association of Research Directors, Atlanta, GA, March 30, 2009.
- “Botanical Bead Workshop for Kids,” Milford’s 6th Annual Bug & Bud Festival, Milford, DE, April 25, 2009.
- “Potpourri: History and plants,” The Wyck Old Rose Symposium, Wyck Association, Philadelphia, PA, May 30, 2009.
- “Edible and medicinal wild plants walk,” Delaware State University, Dover, DE, September 28, 2009.
- “Herbaceous plants (perennials & herbs),” Master Gardeners, University of Delaware, Georgetown, DE, October 14, 2009.
- “Wood,” Art Conservation Master’s degree Program, Winterthur Museum & Country Estate, Winterthur, DE, December 7, 2009.

- “Linnaeus and the Basic Principles of Plant Nomenclature,” Delaware Horticulture Industry Expo & Annual Pesticide Conference, Dover, DE, January 13, 2010.
- “Herbs,” Queen Anne’s Co., Master Gardeners, Centreville, MD, January 20, 2010.
- “Transgressive segregation and cytotoxicity: Important genetic and cytological phenomena in the phenotypic expression of essential oil constituents and patterns in *Mentha* (mint),” Dept. of Agriculture & Natural Resources, Delaware State University, March 10, 2010.
- “Ruth Smith Botanical Bead collection and making botanical jewelry,” Claude E. Phillips Herbarium, Delaware State University, March 19, 2010.
- “An Introduction to the Fine Art of Perfumery,” Longwood Gardens, Kennett Square, PA, May 8, 2010.
- “Iconography of roses, ca. 1450 B.C.E. to 1774 C.E.,” Wyck Old Rose Symposium, Wyck Association, Philadelphia, PA, June 5, 2010.
- Medicinal plant walk, Tai Sophia, Fulton, MD, June 10, 2010.
- “A History of Herbs,” International Herb Association, Collinsville, IL, July 10, 2010.
- “Short Course in Microscopic Examination of Herbs,” Tai Sophia, D.S.U., Dover, DE, August 19, 2010.
- “The importance of Linnaeus and the Quakers in the novel concept of botanical education of women in the early 19th century America,” Delaware Valley Chapter, North American Rock Garden Society, Jenkins Arboretum, Devon, PA, October 9, 2010.
- “Is this Plant a Hoax?” McCormick, Hunt Valley, MD, October 15, 2010.
- “The Real World of Harry Potter,” Claude E. Phillips Herbarium, D.S.U., October 29, 2010.
- “Herbal Research, or How to Find Out as Much as You Can About Your Favorite Herb,” Kent Co. Master Gardeners, Paradee Center, Dover, DE, November 16, 2010.
- “Is this Plant a Hoax?” Mid-Atlantic Fruit & Vegetable Convention, Hershey Convention Center, Hershey, PA, February 3, 2011.
- “Lavender and Agri-Tourism,” Innovations and Technological Solutions Addressing Challenges Impacting Southern Maryland Agri-Businesses and Oystermen, Holiday Inn Conference Center and Marina, Solomons, MD, March 8, 2011.
- “Herbs: A Comprehensive Look,” University of Maryland Kent Co. Horticulture Lecture Series, Chestertown, MD, March 11, 2011.
- “Growing Herbs of the Mediterranean in the South,” New Castle Co. Master Gardeners, University of Delaware, Newark, DE, March 19, 2011.
- “Native American Herbs of Flavor and Fragrance,” North Carolina Botanical Garden, Chapel Hill, NC, March 27, 2011.
- “The Therapy of Aroma,” Delaware Women Veterans, Delaware Technical & Community College, April 16, 2011.
- “The Therapy of Aroma,” University of Delaware, Newark, DE, April 19, 2011.
- “Better living Through Botanical Chemistry,” Ozark Folk Center, Mountain View, AR, May 13, 2011.
- “New Dimensions in Concrete Art for the Garden,” Ozark Folk Center, Mountain View, AR, May 14, 2011.
- “An Introduction to the Fine Art of Perfumery,” Herb Society of America, Pittsburgh, PA, June 23, 2011.
- “New Dimensions in Concrete Art for the Garden,” Herb Society of America, Pittsburgh, PA, June 25, 2011.
- “Chemistry of Roses, Drying Roses and Making Potpourri,” International Herb Association, Midland, MI, July 16, 2011.
- “Better Living Through Botanical Chemistry,” International Herb Association, Midland, MI, July 17, 2011.
- “Genetics and biotechnology of the genus *Mentha*: a model for other polyploidy species with essential oils and other plant constituents? Plant Science, University of Delaware, October 7, 2011.
- “Essential oils,” Tai Sophia, Dover, DE, October 18, 2011.
- “The Real World of Harry Potter,” Claude E. Phillips Herbarium, D.S.U., October 21-22, 2011.
- “Herbaceous plants (perennials & herbs),” Master Gardeners, University of Delaware/Delaware State University, Dover, DE, October 31, 2011.
- “Imported Potpourri: A Cause for Concern,” Tropical Agriculture, Ecology, & Conservation, Delaware State University, Dover, DE, January 30, 2012.
- “Identification and Chemistry of Commercial Incense Copals of North America,” Tropical Agriculture, Ecology, & Conservation, Delaware State University, Dover, DE, January 30, 2012.
- “Herbs in Fresh Flower Arrangements,” Women in Agriculture, Dover Downs, Dover, DE, February 9, 2012.
- “Botanical Forensics Day,” Dept. of Agriculture & Natural Resources, D.S.U., Dover, DE, February 11, 2012.
- “Natural Sources of Perfumes,” Lancaster Co. Garden Club, Lancaster, PA, February 13, 2012.
- “Imported Potpourri: A Cause for Concern?” Plant Biology Seminar Series, Rutgers University, New Brunswick, NJ, February 17, 2012.
- “Considerations and Experiences with Lavender Farming,” Ontario Fruit & Vegetable Convention, Niagara, Canada, February 23, 2012.

- “Lavender Essential Oils: Varieties, Attributes, & Regulations,” Ontario Fruit & Vegetable Convention, Niagara, Canada, February 23, 2012.
- “New Dimensions in Concrete Art for the Garden,” Michigan Herb Associates, Michigan State University, East Lansing, MI, March 7, 2012.
- “Eat This, Not That: Better living Through Botanical Chemistry,” Michigan Herb Associates, Michigan State University, East Lansing, MI, March 8, 2012.
- “The Claude E. Phillips Herbarium,” Camden-Wyoming Rotary Club, Wild Quail, Wyoming, DE, March 18, 2012.
- “Growing Herbs of the Mediterranean in the South,” Herbs Galore! Maymont, Richmond, VA, April 28, 2012.
- “Eat This, Not That: Better living Through Botanical Chemistry,” Herbs Galore! Maymont, Richmond, VA, April 28, 2012.
- “Natural Sources of Perfumes,” University of Delaware Botanic Garden, Newark, DE, May 9, 2012.
- “Beyond Hypertufa: Creating a Concrete Pot,” Camden, DE, April 20, 2013.
- “Mints are Like Stray Cats,” Connecticut Unit, Herb Society of America, Elizabeth Park, West Hartford, CT, July 12, 2013.
- “Linnaeus,” American Conifer Society, Mt. Kisco, NY, August 9, 2013.
- “Native American Herbs of Flavor and Fragrance,” Monticello, Charlottesville, VA, Sept., 6, 2013.
- “New Dimensions in Concrete Garden Art,” Monticello, Charlottesville, VA, September 7, 2013.
- “Native American Herbs of Flavor and Fragrance,” Monticello, Charlottesville, VA, Sept., 7, 2013.
- “Herbaceous plants (perennials & herbs),” Master Gardeners, Delaware State University/University of Delaware, Dover, DE, October 16, 2013.
- “Herbs of Mexico” and “Copal,” Tropical Agriculture and Ecology, Delaware State University, Dover, DE, January 27, 2014.
- “Herbarium Tour,” Caesar Rodney High School, Delaware State University, Dover, DE, May 13, 2014.
- “Mints are Like Stray Cats,” New York Unit, Herb Society of America, John Jay Homestead, Katonah, NY, May 15, 2014.
- “The Voynich Manuscript: Evidence for a Mesoamerican Origin,” Dept. Horticulture, Purdue University, West Lafayette, IN, October 16, 2014.
- “The Voynich Manuscript: Evidence for a Mesoamerican Origin,” Dept. Horticulture, U.S. Botanic Garden, Washington, DC, October 28, 2014.
- “The Voynich Manuscript: Evidence for a Mesoamerican Origin,” Library, Longwood Gardens, Kennett Square, PA, October 29, 2014.
- “Deciphering the Voynich Manuscript: Plants as the Rosetta Stone,” Histoire et sciences du végétal: Approches interdisciplinaires, Université d’Angers, France, December 9, 2014.
- “Herbaceous plants (perennials & herbs),” Master Gardeners, Delaware State University/University of Delaware, Georgetown, DE, September 23, 2015.
- “The Voynich Manuscript as a MesoAmerican Herbal,” American Society for Horticultural Science, New Orleans, LA, August 5, 2015.
- “The Voynich Manuscript: Evidence for a Mesoamerican Origin,” Sierra Club, Dover, DE, October 7, 2015.
- “Linnaeus in the New World,” University of Delaware Botanic Garden, Newark, DE, October 13, 2015.
- book signing & lecture, Elbert N. & Ann V. Carvel & Research Education Center, Georgetown, DE, March 15, 2016.
- book signing & lecture, Paradee Center, Dover, DE, June 28, 2016.
- “Identification of Plants: The Rosetta Stone,” “Special Symposium—Mysteries of the Voynich Codex: A Meso-American Herbal,” American Society for Horticultural Science, Atlanta, GA, August 8, 2016.
- “Herbs of Mexico on your plate: from Badianus to NAFTA,” Herb Harvest Fall Festival Seminar, Ozark Folk Center, Mountain View, AR, October 6, 2017.

TEACHING EXPERIENCE:

Fall 1969 Principles of Botany: Laboratory-Rutgers-The State University
 Spring 1970 Taxonomy of Vascular Plants: Laboratory-Rutgers
 1971-1972 Biology, Issues, and Man: Laboratory-Rutgers
 Summer 1972 General Biology: Laboratory and Recitation-Rutgers
 1972-1973 General Biology: Co-ordinator for laboratories-Rutgers
 1974-1976 Biochemistry: Laboratory-Rutgers Medical School
 Spring 1976 General Biology, Horticultural Plant Materials, Systematic Botany-Delaware State University
 Summer 1976 General Biology-D.S.U.

Fall 1976 General Horticulture, Plant Physiology, People and the Planet, Applying for Job and Graduate School-D.S.U.
 Spring 1977 General Biology, People and the Planet, Report and Scientific Writing-D.S.U.
 Fall 1977 General Horticulture, Applying for Job and Graduate School-D.S.U.
 Spring 1979 Horticultural Plant Materials, Plant Physiology-D.S.U.
 Fall 1980 General Biology-D.S.U.
 Spring 1981 Horticultural Plant Materials, Introduction to Biology-D.S.U.
 Fall 1981 Plant Physiology-D.S.U.
 Fall 1982 General Botany-D.S.U.
 Spring 1983 Horticultural Plant Materials-D.S.U.
 Fall 1983 Plant Physiology-D.S.U.
 Fall 1984 General Botany-D.S.U.
 Spring 1985 Horticultural Plant Materials-D.S.U.
 Fall 1985 Plant Physiology-D.S.U.
 Fall 1986 General Botany-D.S.U.
 Spring 1987 Horticultural Plant Materials-D.S.U.
 Fall 1987 Population Biology (graduate level)-D.S.U.
 Fall 1988 Plant Physiology-D.S.U.
 Spring 1989 Horticultural Plant Materials-D.S.U.
 Summer 1989 Evolution of Vascular Plants (graduate level)-D.S.U.
 Fall 1989 Population Biology (graduate level)-D.S.U.
 Spring 1990 General Horticulture-D.S.U.
 Fall 1990 Plant Physiology-D.S.U.
 Spring 1991 Horticultural Plant Materials-D.S.U.
 Summer 1991 Evolution of Vascular Plants (graduate level)-D.S.U.
 Fall 1991 General Botany-D.S.U.
 Fall 1991 Taxonomy of Ornamental Plants (graduate level)-Longwood Gardens
 Spring 1992 Population Biology (graduate level)-D.S.U.
 Fall 1992 Using Historic Plant Materials-George Washington University
 Fall 1993 General Botany-D.S.U.
 Spring 1994 Population Biology (graduate level)-D.S.U.
 Spring 1994 Horticultural Plant Materials-D.S.U.
 Fall 1994 Plant Physiology-D.S.U.
 Fall 1995 General Botany-D.S.U.
 Fall 1995 Population Biology (graduate level)-D.S.U.
 Fall 1996 Horticultural Plant Materials-D.S.U.
 Fall 1997 General Botany-D.S.U.
 Fall 1998 Horticultural Plant Materials-D.S.U.
 Fall 1999 General Botany-D.S.U.
 Fall 2000 Horticultural Plant materials-D.S.U.
 Fall 2001 General Botany-D.S.U.
 Fall 2002 Horticultural Plant Materials-D.S.U.
 Spring 2003 Evolution of Vascular Plants-D.S.U.
 Fall 2003 General Botany-D.S.U.
 Spring 2004 Plant Anatomy & Morphology-D.S.U.
 Fall, 2004 Horticultural Plant Materials-D.S.U.
 Spring 2005 Evolution of Vascular Plants-D.S.U.
 Spring 2006 Plant Anatomy & Morphology-D.S.U.
 Fall 2007 General Botany-D.S.U.
 Spring 2008 Plant Anatomy & Morphology-D.S.U.
 Fall 2010 Horticultural Plant Materials, D.S.U.
 Spring 2011 Plant Propagation and Greenhouse Management-D.S.U.
 Fall 2011 General Botany, D.S.U.
 Spring 2014 Systematic Botany, D.S.U.

SERVICE TO DELAWARE STATE UNIVERSITY & MISC.:

Serendipity (Life Sciences Club and The Society of Natural History of Delaware): 1976, 1977, 1978, 1979, 1980

Founding Co-counselor of Xi Tau Chapter of Kappa Delta Pi, 1977-1978
 Delaware Science Olympiad, 1977-1987, 1996
 advisor for Problems in Plant Science, Department of Agriculture & Natural Resources: Susan Wujtewicz, 1980
 advisor for Problems in Plant Science, Department of Agriculture & Natural Resources: Derrick S. Waltz, 1980
 advisor for Problems in Plant Science, Department of Agriculture & Natural Resources: Stephanie Dove, 1981
 Delaware Junior Science Olympiad, 1985-1987
 Mini-Courses through Dept. of Public Instruction
 "Perfumes: composition and formulation," November 22, 1980
 "Herbs," May 23, 1981
 "Perfumes, potpourris, and pomanders," December 10, 1981
 "Herbs," May 20, 1982
 "Plants for kids," May 19, 1983
 "Plants for kids," April 10, 1984
 "Plants for kids," April 10, 1985
 "Scents in the classroom," April 10, 1986
 "Plants for kids," April 24, 1986
 Senior Experience, Art Dept., D.S.U.: Jeff Carney, 1983; James Niblack, 1984
 Policies and Procedures Sub-committee of the Faculty Affairs Committee, 1982-1983
 Institutional and Biosafety Committee, 1982-1984
 Negotiating Committee, AAUP, 1982-1983
 Grievance Committee, AAUP, 1985-1986
 Faculty Senate Alternate, 1985-1986
 Career Enrichment Program, 1985, 1987
 advisor for Problems in Plant Science, Department of Agriculture & Natural Resources: Nancy Seyfried, 1985
 National Science Olympiad, 1988
 Excellence Awards Committee, 1988-1989, 1990-1991, 1991-1992, 2004-2005
 Farm Week, April 27-May 1, 1992; April 26-30, 1993; April 25-29, 1994; April 24-28, 1995; April 22-26, 1996
 Sponsored Research Sub-committee 1992
 Recruitment & Retention Committee, Agricultural & Natural Resources, 1987-1989
 "Best in Show," exhibit for Dept. of Agriculture and Natural Resources, D.S.U. at Delaware Agriculture Expo, Dover Mall, March 25-26, 1988
 exhibit for Dept. of Agriculture and Natural Resources, D.S.U. at Ag Days, Blue Hen Mall, March 31-April 2, 1989
 exhibit for Dept. of Agriculture and Natural Resources, D.S.U. at Delaware State Fair, July 21-30, 1989
 exhibit for Dept. of Agriculture and Natural Resources, D.S.U. at Eighth Biennial Research Symposium, Association of Research Directors, Arlington, VA, October 8-11, 1989
 exhibit for Dept. of Agriculture and Natural Resources, D.S.U. at Ag Days, Dover Mall, March 24-25, 1990
 exhibit for Dept. of Agriculture and Natural Resources, D.S.U. at Delaware State Fair, July 20-28, 1990
 Recruitment and Retention in Agriculture and Natural Resources, D.S.U., June 26, 1992.
 advisor for Problems in Plant Science, Department of Agriculture & Natural Resources: Monica Bourey, 1991
 exhibit for Dept. of Agriculture and Natural Resources, D.S.U. at Ag Days, Dover Mall, March 27-28, 1993
 Recruitment and Retention in Agriculture and Natural Resources, D.S.U., June 23, 1993
 exhibit for Dept. of Agriculture & Natural Resources, D.S.U. at Dover Mall, October 22-24, 1993
 Personnel Committee, Department of Agriculture & Natural Resources, D.S.U. 1993-
 Greenhouse Committee Chairman, Department of Agriculture & Natural Resources, D.S.U. 1993-
 Departmental Brochure Committee Chairman, Department of Agriculture & Natural Resources, D.S.U., 1993-1996
 "Herb's a flavor to savor," exhibit for Kent & Sussex Co. Master Gardeners, Dover Mall, March 26-27, 1994
 facilitator, First Annual Family Conference, April 19, 1994
 exhibit for Dept. of Agriculture & Natural Resources, D.S.U. at Del-Mar-Va Chicken Festival, June 17, 1994
 Summer Agriculture Workshop, D.S.U., June 29, 1994
 advisor to Park Management & Recreation and Environmental Health/Science majors from time of Dr. N. Dill's death in 1994 until hire of Dr. Lisa Mueller in 1996
 exhibit for Dept. of Agriculture & Natural Resources, D.S.U. at Dover Mall, October 21-23, 1994
 exhibit for Dept. of Agriculture & Natural Resources, D.S.U. at Longwood Gardens, November 17, 1994
 Delaware Science Olympiad, April 8, 1995
 graduate committee member, Dept. of Biology, Bowen Sosnicki, 1995
 graduate committee member, Dept. of Biology, Donald Wujtewicz, 1995
 graduate committee chair, Dept. of Biology: James Fleming, 1995

advisor for Problems in Plant Science, Department of Agriculture & Natural Resources: Jaclyn Davis, 1997
graduate committee member, Dept. of Biology, Michael Stangel, 1999.
research director for Lisa Walton, Smyrna High School, Delaware Junior Science & Humanities Symposium,
1995-1996
research director for Chetan Patel, Smyrna High School, Delaware Junior Science & Humanities Symposium,
1995-1996
Delaware Envirothon Competition, March 11, 1996
D.S.U. Ag Day, April 27, 1996
Summer Agriculture Workshop, D.S.U., June 24, 1996
advisor, Scents of Spring, U. S. Botanic Garden Spring Flower Show, March 15-April 13, 1997
D.S.U. Ag Day, April 26, 1997
judge, Idea Gardens and Container Gardens, Seventh Annual Zwaanendael Heritage Tour, Lewes, DE, June 20,
1997.
Summer Agriculture Workshop, D.S.U., June 26, 1997
instructor for Problems in Plant Science, Department of Agriculture & Natural Resources: Jacquie Davis, 1998
judge, Philadelphia Flower Show, Philadelphia, PA, March 10, 2006; March 8, 2007; March 7, 2008; March 6,
2009; February 27, 2010; March 5, 2011, March 3, 2012; March 1, 2013; March 4, 2014; March 4,
2016; March 16, 2017.
advisor, Aaron Gibson, NFS EPSCoR, summer 2009.
Moderator, Profiting from a Few Acres, Sheraton Hotel, Dover, DE, November 10, 2010.
Judge, Recycle/Reuse/Reinvent Cotton Competition, Dept. of Human Ecology, D.S.U., October 25, 2011.
Organizer, Botanical Forensics/Phytoarchaeology Open House, D.S.U., February 11, 2012.