

**STEVEN E. CLEMANTS, Ph.D.**  
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## **EDUCATION**

Ph.D. Biology, The City University of New York 1984  
M.Ph. Biology, The City University of New York 1983  
M.S. Botany, minor: Horticulture, University of Minnesota 1979  
B.S. Botany, University of Minnesota 1976

## **WORK EXPERIENCE**

### **Brooklyn Botanic Garden, Brooklyn, NY 1/00 to Present**

VICE PRESIDENT OF SCIENCE. Member of executive team that oversees the \$16M budget of the garden. Responsible for developing and implementing vision for and overseeing Science and Library. Oversee staff of 17 including 6 Ph.D. scientists. Co-Director of Center for Urban Restoration Ecology (CURE), a collaboration between Rutgers University and BBG. Editor-in-Chief of Urban Habitats, a peer-reviewed, open access journal published by BBG.

### **Brooklyn Botanic Garden, Brooklyn, NY 4/97 to 3/2004**

DIRECTOR OF SCIENCE. Managed a department of nine. Concurrent with Vice President 1/00-3/2004

### **Brooklyn Botanic Garden, Brooklyn, NY 6/89 to 4/97**

TAXONOMIST. Founded and coordinated the New York Metropolitan Flora (NYMF).

### **New York Natural Heritage Program, Delmar, NY 1/85 to 5/89**

BOTANIST. Created botanical component of the New York Natural Heritage database. Advised the New York State Department of Environmental Conservation on rare plants.

### **Bard College, Annandale-on-Hudson, NY 9/84 to 12/84**

VISITING PROFESSOR OF BIOLOGY. Taught General Biology and General Botany lecture and laboratory.

## **OTHER CURRENT POSITIONS**

President of the board, Botanic Garden Conservation International-US  
Acting Executive Director, BGCI-US program (January –August 2004, January 2007 – December 2007).  
Chair, Invasive Plant Council of New York State  
Member, New York State Invasive Species Taskforce  
Historian, Torrey Botanical Society  
Chairman of Local Flora Committee, Long Island Botanical Society  
Board Member, New York City Soil and Water Conservation Board Technical Advisory Board  
Member, Steering Committee, Cultivated Plant Flora of North America  
Graduate Faculty Member, The City University of New York  
Graduate Faculty Member, Rutgers University

## **GRADUATE STUDENTS**

Judith Fitzgerald, Ph.D. City University of New York, “An Ecological, Floristic, and an Historical Study of Inwood Hill Park, Northern Manhattan”, 2006.

## **OTHER RECENT SERVICE**

Participant, “Urbanisation and plant functional traits” working group of the ARC-NZ Research Network for Vegetation Function, February and December 2007.

Master of Ceremonies, Invasive Plants Council of New York State Conference, February 2007.

President, Nature Network (A consortium of over 40 environmental organizations in and around New York City working to improve the environment), 2005-2006.

Peer review panelist for the United States Department of Agriculture, Office of Scientific Quality Review (OSQR), 2003-2005.

Convener, 4<sup>th</sup> International Symposium on Taxonomy of Cultivated Plants (held as part of the XXVIth International Horticultural Congress), Toronto, Canada, 2002.

Convener, Science for Plant Conservation – An International Conference for Botanic Gardens (held under the auspices of Botanic Garden Conservation International), Dublin, Ireland, 2002.

## **RECENT MAJOR GRANT SUPPORT**

Clemants, S. E., Principal Investigator. 2000-2002. Brooklyn Botanic Garden: New York Metropolitan Flora Project. New York Community Trust. \$300,000.

Clemants, S. E. Principal Investigator. 2001-2002. Brooklyn Botanic Garden: New York Metropolitan Flora: Study of Aquatic and Wetland Plants in the Lower Hudson River Watershed. Hudson River Foundation. \$50,000.

Clemants, S. E., Principal Investigator. 1997-2001. Brooklyn Botanic Garden: New York Metropolitan Flora Project. Andrew W. Mellon Foundation. \$250,000.

Clemants, S. E., S. Handel and S. Mosyakin, Principal Investigator's. 2000. “New Approaches to Understanding the Ecology of Urban Plant Communities” workshop held in Kiev, Ukraine. Civilian Research and Development Foundation. \$19,200.

In addition, many programs within my purview at the garden have received support which I helped develop. For instance: BBG's Herbarium received a NSF grant for digitally cataloging the NY, NJ and CT specimens (3 years, \$300K), we have received funds from the Federal Highway Administration and Bureau of Land Management for publishing the recently published “Native Alternatives to Invasive Plants” handbook, and we recently received a National Endowment for the Arts grant for an exhibition featuring historical art from our library holdings.

**BOOKS**

- Clemants, S.E. and C. Gracie. 2006. *Wildflowers in the Field and Forest*. Oxford Univ. Press, New York. 445 pp.
- \_\_\_\_\_. (ed.). 1999. *New York Metropolitan Flora Woody Plant Workbook*. Brooklyn Botanic Garden, Brooklyn. 350 pp.
- \_\_\_\_\_. & S. D. Glenn (eds.) 1994. *New York Metropolitan Flora: Preliminary Atlas of Woody Plants*. Contributions from the Brooklyn Botanic Garden Herbarium 2: 1-77.
- \_\_\_\_\_. 1992. *Chenopodiaceae and Amaranthaceae of New York State*. New York State Museum Bulletin 485: 1-100.
- \_\_\_\_\_. 1990. *New York Metropolitan Flora; Preliminary Checklist*. Contributions from the Brooklyn Botanic Garden Herbarium 1: 1-61.
- \_\_\_\_\_. 1990. *Juncaceae (Rush Family) of New York State*. New York State Museum Bulletin 475:1-67.

**OTHER PUBLICATIONS**

- Johnson, M.F.J.; S.N. Handel and S.E. Clemants. 2007. Fruit type, life form and origin determine the success of woody plant invaders in an urban landscape. *Biological Invasions* 9(4): 465-475.
- Clemants, S.E. and S.N. Handel. 2006. Restoring Urban Ecology: The New York-New Jersey Metropolitan Area Experience. Pp. 127-140. *In: Platt, R.H. The Humane Metropolis: People and Nature in the 21st-Century City*. University of Massachusetts Press, Amherst.
- \_\_\_\_\_. 2006. *Chenopodiaceae*. *In: Iwatsuki, K. et al. eds. Flora of Japan. 2a: 212-221. Kodansha, Tokyo.*
- \_\_\_\_\_. 2006. *Amaranthaceae*. *In: Iwatsuki, K. et al. eds. Flora of Japan. 2a: 222-230. Kodansha, Tokyo.*
- \_\_\_\_\_. and G. Moore. 2005. *The Changing Flora of the New York Metropolitan Region*. *Urban Habitats* 3(1): 192-210. [see [http://www.urbanhabitats.org/v03n01/newyork\\_abs.html](http://www.urbanhabitats.org/v03n01/newyork_abs.html)]
- Greller, A.M.; G.E. Lotowycz; G. Moore; E. Lamont; H. Binger; B. Conolly; V. Dankel; J. Hoar; C. Johnston; A. Mangiacapre; J. Schmidt; L. Zimmerman; V. Luisi; B. Quigley; M.L. Lamont and S. Clemants. 2005. Vascular Flora of Caumsett State Historic Park, Lloyd Neck, Long Island, New York, with notes on the vegetation. *J. Torrey Botanical Society* 131(1): 149-168.
- Ma, J.-S.; K. Barringer and S. Clemants. 2005. Lectotypification of *Metasequoia*. *Taxon* 54(2): 475-476.
- Clemants, S.E.; C. Stapleton and M. Walters. 2004. Grasses and Bamboos. *In: Marinelli, J., editor. Plant: the ultimate visual reference to plants and flowers of the world*. pp. 260-279. Dorling Kindersley Ltd., London.
- \_\_\_\_\_. 2004. *Chenopodiaceae*. *In: Smith, N. et al., editors. Flowering Plants of the Neotropics*. Princeton University Press, Princeton. Pp. 97-99.
- \_\_\_\_\_. 2004. *Guilleminea* (Amaranthaceae). *In: Flora of North America Editorial Committee, editors. Flora of North America*. Oxford Press, New York. 4: 437-438.

- Clemants, S.E. 2004. *Gossypianthus* (Amaranthaceae). In: Flora of North America Editorial Committee, editors. *Flora of North America*. Oxford Press, New York. 4: 438-439.
- \_\_\_\_\_. 2004. *Alternanthera* (Amaranthaceae). In: Flora of North America Editorial Committee, editors. *Flora of North America*. Oxford Press, New York. 4: 447-451.
- \_\_\_\_\_. 2004. *Gomphrena* (Amaranthaceae). In: Flora of North America Editorial Committee, editors. *Flora of North America*. Oxford Press, New York. 4: 451-454.
- \_\_\_\_\_. 2004. *Iresine* (Amaranthaceae). In: Flora of North America Editorial Committee, editors. *Flora of North America*. Oxford Press, New York. 4: 454-456.
- \_\_\_\_\_ and S. Mosyakin. 2004. *Dysphania* (Chenopodiaceae). In: Flora of North America Editorial Committee, editors. *Flora of North America*. Oxford Press, New York. 4: 267-275.
- \_\_\_\_\_ and \_\_\_\_\_. 2004. *Chenopodium* (Chenopodiaceae). In: Flora of North America Editorial Committee, editors. *Flora of North America*. Oxford Press, New York. 4: 175-299.
- Sánchez del Pino, I. and S.E. Clemants. 2004. *Tidestromia*. In: Flora of North America Editorial Committee, editors. *Flora of North America*. Oxford Press, New York. 4: 439-443.
- Welsh, S.L., C.W. Crompton and S.E. Clemants. 2004. Chenopodiaceae. In: Flora of North America Editorial Committee, editors. *Flora of North America*. Oxford Press, New York. 4: 258-261.
- Bao, B.-J., T. Borsch and S.E. Clemants. 2003. Amaranthaceae. In: Wu, Z.-G. & P.H. Raven, editors. *Flora of China: Ulmaceae through Basellaceae*. 5: 415-429. Science Press, Beijing, and Missouri Botanical Garden Press, St. Louis.
- Clemants, S.E. and G. Moore. 2003. Patterns of Species Richness in Eight Northeastern United States Cities. *Urban Habitats* 1(1): 4-16. [see: [http://www.urbanhabitats.org/v01n01/speciesdiversity\\_pdf.pdf](http://www.urbanhabitats.org/v01n01/speciesdiversity_pdf.pdf)]
- Moore, G., A. Stewart, S.E. Clemants, S. Glenn, and J. Ma. 2003. An Overview of the New York Metropolitan Flora Project. *Urban Habitats* 1(1): 17-24. [see: [http://www.urbanhabitats.org/v01n01/nymf\\_pdf.pdf](http://www.urbanhabitats.org/v01n01/nymf_pdf.pdf)]
- Steward, A., S.E. Clemants and G. Moore. 2003. The concurrent decline of the native *Celastrus scandens* and spread of the non-native *Celastrus orbiculatus* in the New York City metropolitan area. *Journal of the Torrey Botanical Society* 130(2): 143-146.
- Zhu, G.-L., S.L. Mosyakin and S.E. Clemants. 2003. Chenopodiaceae. In: Wu, Z.-G. & P.H. Raven, editors. *Flora of China: Ulmaceae through Basellaceae*. 5: 351-414. Science Press, Beijing, and Missouri Botanical Garden Press, St. Louis.
- Balslev, H., S.E. Clemants, M.C. Fernández Carvajal Álvarez, L. Hämet-Ahti, F. Miyamoto, L.J. Novara, S.S. Simonov, and K.L. Wilson. 2002. *Juncus* sect. *Ozophyllum*. In: Kirschner, J, compiler. *Juncaceae 2: Juncus subg. Juncus. Species Platarum: Flora of the World 7*: 151-271. Australian Biological Resources Study, Canberra, Australia.
- Clemants, S. E. and S. Handel. 2002. Outreach and Continuing Education Courses to Involve New Restoration Ecology Stakeholders. [abstract] *Ecological Society of America 2002 Annual Meeting abstracts*. [see <http://abstracts.co.allenpress.com/pweb/esa2002/document/?ID=17987>].
- \_\_\_\_\_ and J. Marinelli. 2002. Biodiversity in the city. *PlantTalk* 27: 35-37.

- Mosyakin, S.L. and S.E. Clemants. 2002. New nomenclatural combinations in *Dysphania* R.Br. (Chenopodiaceae): taxa occurring in North America. *Ukrayinskyi Botanichnyi Zhurnal* (Ukrainian Botanical Journal) 59(4): 380-385. [In English with Ukrainian and Russian summaries].
- Clemants, S.E. 2001. Counterpoint: "Whose Trees are These?" Good Question!. *Public Garden* 16(2): 42-43.
- Greller, A.M. and S.E. Clemants. 2001. Flora of West Hills Park, Suffolk County, New York, with considerations of provenance of some long-distance disjuncts. *Journal of the Torrey Botanical Society* 128: 76-89.
- Brooks, R.E. and S.E. Clemants. 2000. Juncaceae. *In: Flora of North America Editorial Committee, editors. Flora of North America*. 22: 211-267. Oxford Press, New York.
- Wu, G.-F. and S.E. Clemants. 2000. Juncaceae. *In: Wu, Z.-G. & Raven, P.H., editors. Flora of China: Flagellariaceae through Maranthaceae*. 24: 44-69. Missouri Botanical Garden Press, St. Louis.
- Clemants, S.E.. 1999. Classification of the Chenopodiales. [abstract]. XVI International Botanical Congress abstracts. [see <http://www.biologie.uni-hamburg.de/b-online/ibc99/ibc/abstracts/listen/abstracts/2708.html>]
- \_\_\_\_\_. 1998. Botany for Gardeners. *In: Marinelli, J. editor, Gardener's Desk Reference*. Henry Holt and Co., New York. Pp. 39-94.
- \_\_\_\_\_. 1998. International Registration of Cultivar Names for Unassigned Woody Genera 1997. *HortScience* 33(4): 588.
- Ziman, S.M., K.M. Sytnik, V.V. Novosad, B.E. Dutton, S. Clemants. 1998. Biomorphological and phytocoenotic peculiarities of rare high-mountain flowering plants in the Ukrainian Carpathians. Pp. 66-71 *In: Importance and Prospects of Stationary Studies for Biodiversity Conservation*. [In Ukrainian].
- Clemants, S.E. 1997. International Registration of Cultivar Names for Unassigned Woody Genera 1996. *HortScience* 32(4): 586-587.
- Clemants, S.E. 1996. Book Review: *Weed Seeds of the Great Plains: A Handbook for Identification*. *Bulletin of the Torrey Botanical Club* 123: 73-74.
- Luteyn, J.L., W.S. Judd, S.P. Vander Kloet, L.J. Dorr, G.D. Wallace, K.A. Kron, P.F. Stevens and S.E. Clemants. 1996. Ericaceae of the southeastern United States. *Castanea* 61(2): 101-144.
- Mosyakin, S.L. and S.E. Clemants. 1996. New Infrageneric Taxa and Combinations in *Chenopodium* L. (Chenopodiaceae). *Novon*. 6: 398-403.
- Clemants, S.E. 1995. Chenopodiaceae. Shokubtusu no Sekai. [Plants of the World] 81: 258-264. [In Japanese].
- \_\_\_\_\_. 1995. Book Review: *Intermountain Flora, Volume Five: The Asterales*. *Bulletin of the Torrey Botanical Club* 122: 244.
- \_\_\_\_\_. 1995. *Bejaria*. *In: Luteyn, J. editor. Flora Neotropica: Ericaceae, part 2*. *Flora Neotropica* 66: 54-106.
- \_\_\_\_\_. 1995. *Rhododendron*. *In: Luteyn, J. editor. Flora Neotropica: Ericaceae, part 2*. *Flora Neotropica* 66: 131-132.
- \_\_\_\_\_. 1995. International Registration of Cultivar Names for Unassigned Woody Genera 1994. *HortScience* 30(3): 445.

Clemants, S.E. 1995. Book Review: *Flora of China: Verbenaceae through Solanaceae. vol. 17.* ASPT Newsletter 9(1): 33-34.

Eliasson, U. and S.E. Clemants. 1995. Amaranthaceae. Shokubtusu no Sekai. [Plants of the World] 81: 268-271. [In Japanese].

Clemants, S.E. 1994. (1103) Proposal to conserve 6182 *Bejaria* (Ericaceae) with a conserved spelling and type. Taxon 43: 473-476.

\_\_\_\_\_. 1992. Native Gardens for Metropolitan New York. Plants & Gardens. Brooklyn Botanic Garden Record 48(1): 60-69.

\_\_\_\_\_. 1991. Two New Species of *Bejaria* (Ericaceae) from South America. Brittonia 43(3): 171-177.

\_\_\_\_\_ and E.H. Ketchledge. 1990. Flora Protection: the Question of Rare Mosses. In: R. S. Mitchell, C. J. Sheviak and D. J. Leopold (eds.), *Ecosystem Management: Rare Species and Significant Habitats*. Proc. 15th Ann. Natural Areas Conference. New York State Museum Bull. 471. 314 pp.

\_\_\_\_\_. 1985. A Key to The Rushes (*Juncus* spp.) of Minnesota. Michigan Botanist 24: 33-37.