

CURRICULUM VITAE: JULIAN CAMPBELL
JAN 2007 [to be updated]

Current Working Address: Bluegrass Woodland Restoration Center
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PERSONAL DATA

Full Name: Julian James Noel Campbell
Born: 17th January 1953, London, England
Married: 22nd December 1971 (Saundra)
Children: one daughter (Flora, 29th August 1986)
Citizenship: U.S.A. and Great Britain

EDUCATION

1966-70: Queen's Scholar, Westminster School, London, England
A-levels (Oxbridge): Pure Maths (A); Applied Maths (B); Physics (A/S1); Chemistry (A/S2); Biology (A/S2)
1971-74: Magdalene College, University of Cambridge, England
B.A. (Hons.) Class 2.2, Natural Sciences; tutor, P.J. Grubb
Part IA--Chemistry/Biology of Cells/Biology of Organisms
Part IB--Biochemistry/Botany/Environmental Biology
Part II--Botany (with emphasis on ecology)
1974-75: University College of North Wales, Bangor, Wales
M.Sc. (Ecology); major advisor, P. Greig-Smith
Thesis--"Ground vegetation, tree regeneration, grazing, light and soil in Coed Gorswen, a North Wales oak-ash-alder wood" (62 pp.)
1976-80: Graduate School, University of Kentucky, Lexington, Kentucky
Ph.D. (Biology); major advisor, W. Meijer
Dissertation--"Present and presettlement forest conditions in the Inner Bluegrass of Kentucky" (209 pp.)

EMPLOYMENT, CONTRACTS AND OTHER PROFESSIONAL SERVICES

- 1975: Ohio State University (Department of Biology), Columbus, Ohio
Teaching Assistant (one semester)
- 1977-78: University of Kentucky (School of Biological Sciences), Lexington
Teaching Assistant--Introductory Botany, Plant Kingdom, Field Botany
- 1977: Land and Nature Trust of the Bluegrass, Lexington, Kentucky
Part-time employment on landscape inventory
- 1980: Kentucky State Nature Preserves Commission, Frankfort, Kentucky
Contract to analyze forest composition for conservation planning
- 1981: East Kentucky Power Cooperative Inc.
Contract to train employees for environmental impact studies
- 1982-83: World Wildlife Fund International, Gland, Switzerland
Contract to work on bamboo forest ecology in China for Giant Panda Project
- 1984: Chadwick & Associates Inc., Littleton, Colorado
Contract to survey flora in Kentucky for Means Oil-Shale Project
- 1984-85: Great Smoky Mountains National Park, Gatlinburg, Tennessee
Contract to assess vegetation damage from European wild boar
- 1985-86: University of Kentucky (School of Biological Sciences), Lexington, Kentucky
Part-time Instructor--Economic Botany, Plant Kingdom, Animal Biology, Ecology
- 1986-87: University of Kentucky (Department of Horticulture), Lexington, Kentucky
Research Specialist for establishing arboretum with woody plants of Kentucky
- 1986-87: The Nature Conservancy, Frankfort, Kentucky
Contract to survey rare plant species of Jessamine Creek Gorge.
- 1986: Commonwealth Technology Inc., Lexington, Ky. (E.T. Hartowisz subcontract)
Contract to survey vegetation along proposed US 23, Floyd & Johnson Counties.
- 1987-92: East Kentucky Power Cooperative Inc., Winchester, Ky.
Contracts to search for rare plant species along proposed powerlines.
- 1987-88: The Nature Conservancy, Lexington, Ky.
Contract for botanical work in cooperative inventory of rare species in Daniel Boone National Forest; working in partnership with US Forest Service, Ky. State Nature Preserves Commission, and Ky. Dept. of Fish & Wildlife Resources.
- 1989-present: The Nature Conservancy, Lexington, Ky.
Full time employment as botanist & inventory coordinator; initially as coordinator of continued cooperative inventory of rare species on Daniel Boone National Forest (1989-1994); other major projects include the following:
1989-present: Natural Areas Inventory of Kentucky (continuing).
1994-96: Ecological Classification on Daniel Boone National Forest.
1996-99: Biological Evaluation of East Kentucky Power & Cooperative powerlines on Daniel Boone National Forest.
1997-99: Fire Management Plan for Mammoth Cave National Park.
1999-2001: Fire Management Plan for Big South Fork NRR.

OTHER FINANCIAL SUPPORT AND GRANTS

- 1974-75: Buttle Memorial Trust, London, England
\$1000 for M.Sc. work.
- 1978-79: University of Kentucky, Graduate School
\$3000 for Ph.D. Dissertation Year Fellowship.
- 1984: Kentucky Academy of Science, Narcia Athey Fund
\$1500 for floristic work in Bluegrass region.
- 1984-85: Smithsonian Institution, Department of Botany (with T.R. Soderstrom).
\$3500 for work on taxonomy and ecology of bamboos, including trip to India;
- 1987-89: Plant Conservation Center, Missouri Botanical Garden (with N.L. Taylor).
\$1000 for propagation and study of *Trifolium stoloniferum* at University of Kentucky, Department of Agronomy.
- 1989-90: Friends of Raven Run Inc., Lexington, Kentucky.
\$3000 to conduct a botanical survey of Raven Run Nature Sanctuary.

VOLUNTARY PROFESSIONAL ACTIVITIES

Kentucky Academy of Science: life member; Secretary, Botany & Microbiology Section (1986-87).

Kentucky Native Plant Society: founding board member (1985-89); newsletter editor (1985-89); president (1990-92).

Advisory Board, Raven Run Nature Sanctuary, Lexington-Fayette Urban County Government (1985-92).

Land & Nature Trust of the Bluegrass: board member (1992-present).

Fayette County Biodiversity Task-Force: currently founding this cooperative group, a partnership of Lexington-Fayette Urban-County Government and private-sector conservationists.

PUBLICATIONS AND TECHNICAL REPORTS (latter shown by asterisks at left margin)

Campbell, J.J.N., D.B. Richards & L.R.F. Crowley. 1978. Regression analysis of sapling abundance in the Inner Bluegrass of Kentucky, with special reference to seed source. In P.E. Pope (ed.). Proceedings of the Second Central Hardwood Forest Conference, p. 258-268. Purdue University, West Lafayette, Indiana.

Meijer, W., J.J.N. Campbell, H. Setser & L.R. Meade. 1981. Swamp forests on high terrace deposits in the Bluegrass and Knobs regions of Kentucky. *Castanea* 46:122-135.

Campbell, J.J.N. 1982. Pears and persimmons: a comparison of temperate forests in Europe and eastern North America. *Vegetatio* 49:85-101.

Campbell, J.J.N., & Qin Z-S. 1983. Interaction of giant pandas, bamboos and people. *Journal of the American Bamboo Society* 4:1-35.

Campbell, J.J.N. 1984. Giant panda conservation and bamboo forest destruction. In T.N. Veziroglu (ed.), *The Biosphere: Problems and Solutions*, p. 599-616. Elsevier Science Publishers B.V., Amsterdam. [Full report to World Wildlife Fund also available on request.*]

*Campbell, J.J.N. 1985. *The Land of Cane and Clover: Presettlement Vegetation in the So-called Bluegrass Region of Kentucky*. Report from the Herbarium, University of Kentucky, Lexington, Kentucky.

Campbell, J.J.N. 1985. Bamboo flowering patterns: a global view with special reference to East Asia. In Proceedings of the First International Bamboo Conference. *Journal of the American Bamboo Society* 6:17-35. [Also published in B.K. Gupta (ed.). 1985. *Symposium on Recent Advances in Plant Sciences*, M.B. Raizada Commemorative Volume, p. 95-118. D.A.V. College, Dehra Dun, India.]

Campbell, J.J.N. 1987. The history of Sino-Himalayan bamboo flowering, droughts and sunspots. *Journal of Bamboo Research* 6(1):1-15.

Campbell, J.J.N. 1987. Gradients of species composition in the Central Hardwood Forest. In R.L. Hay, F.W. Woods & H. DeSelm (eds.). Proceedings of the Sixth Central hardwood Forest Conference, p. 325-346. University of Tennessee, Knoxville, Tennessee. [See also abstracts in 1981: Gradient analysis of Appalachian forest, a review plus further analysis. *Association of Southeastern Biologists Bulletin* 28:89; Habitat segregation of tree species and discreteness of tree communities in the Inner Bluegrass of Kentucky. *Ecological Society of America Bulletin* 62:159-160.]

*Palmer-Ball, B., J.J.N. Campbell, M.E. Medley, D.T. Towles, J.R. MacGregor & R.R. Cicerello. 1988. Cooperative inventory of endangered, threatened, sensitive and rare species: Daniel Boone National Forest, Somerset Ranger District. Technical report by U.S. Forest Service, The Nature Conservancy, Kentucky State Nature Preserves Commission and Kentucky Department of Fish & Wildlife Resources. Kentucky State Nature Preserves Commission, Frankfort, Ky.

Campbell, J.J.N., M. Evans, M.E. Medley & N.L. Taylor. 1988. Buffalo clovers in Kentucky (*Trifolium stoloniferum* and *T. reflexum*): historical records, presettlement environment, rediscovery, endangered status, cultivation and chromosome number. *Rhodora* 90:399-418.

Campbell, J.J.N. 1989. Historical evidence of presettlement forest composition in the Inner Bluegrass of Kentucky. In G. Rink & C.A. Budelsky (eds.). Proceedings of the Seventh Central Hardwood Forest Conference, p. 231-246. North Central Forest Experiment Station, USDA Forest Service.

Campbell, J.J.N., & M.E. Medley. 1989. *Aster saxicastellii* (Asteraceae), a new species from the Rockcastle River bars in southeastern Kentucky. *Sida* 13:277-284.

Campbell, J.J.N., & W. Meijer. 1989. The flora and vegetation of Jessamine Gorge, an outstanding natural area in the Inner Bluegrass Region of Kentucky. *Transactions of the Kentucky Academy of Science* 50:27-45.

*Campbell, J.J.N., D.T. Towles, J.R. MacGregor, R.R. Cicerello, B. Palmer-Ball, M.E. Nedley & S. Olson. 1989. Cooperative inventory of endangered, threatened, sensitive and rare species: Daniel Boone National Forest, Stanton Ranger District. Technical report by U.S. Forest Service, The Nature Conservancy, Kentucky State Nature Preserves Commission and Kentucky Department of Fish & Wildlife Resources. Kentucky State Nature Preserves Commission, Frankfort, Ky.

Campbell, J.J.N., M.E. Medley. 1990. The largest known concentration of *Silphium wasiotensis*, a plant found only in the Rugged Eastern Area of Appalachian Kentucky. *Transactions of the Kentucky Academy of Science* 51:43-50.

*Campbell, J.J.N., A.C. Risk, V.L. Andrews, B. Palmer-Ball & J.R. MacGregor. 1990. Cooperative inventory of endangered, threatened, sensitive and rare species: Daniel Boone National Forest, Stearns Ranger District. Technical report by U.S. Forest Service, The Nature Conservancy, Ky. State Nature Preserves Commission and Ky. Dept. Fish & Wildlife Resources. Kentucky State Nature Preserves Commission, Frankfort. Ky.

Campbell, J.J.N., D.D. Taylor, M.E. Nedley & A.C. Risk. 1991. Floristic and historical evidence of fire-maintained, grassy pine-oak "barrens" before settlement in southeastern Kentucky. In S.C. Nodvin & T.A. Waldrop (eds.). *Fire and the Environment: Ecological and Cultural Perspectives*, Proceedings of an International Symposium, p. 359-375. SE Forest Expt. Station, Asheville, North Carolina.

*Campbell, J.J.N., J.E. Flotemersch, J.R. MacGregor, D. Noe, A.C. Risk, M.D. Studer &

T.T. Towles. 1991. Cooperative inventory of endangered, threatened, sensitive and rare species: Daniel Boone National Forest, Berea Ranger District. Technical report by U.S. Forest Service, The Nature Conservancy, Kentucky State Nature Preserves Commission and Kentucky Department of Fish & Wildlife Resources. Kentucky State Nature Preserves Commission, Frankfort, Ky.

Campbell, J.J.N. 1992. Sino-Himalayan bamboos: towards a synthesis of western and eastern knowledge. Proceedings of the Second International Bamboo Conference. *Journal of the American Bamboo Society* 8:12-22. [Related technical report of 1988 with provisional keys and notes on species available from the author or at Smithsonian Institution, Department of Botany.*]

Campbell, J.J.N., & J. Grubbs. 1992. Natural Plant Communities of Hopkins County, Kentucky. *Transactions of the Kentucky Academy of Science* 53:29-38.

*Campbell, J.J.N., S.A. Bonney, J.D. Kiser, L.E. Kornman., J.R. MacGregor, L.E. Meade & A.C. Risk. 1992. Cooperative inventory of endangered, threatened, sensitive and rare species: Daniel Boone National Forest, Morehead Ranger District. Technical report by U.S. Forest Service, The Nature Conservancy, Kentucky State Nature Preserves Commission and Kentucky Department of Fish & Wildlife Resources. Kentucky State Nature Preserves Commission, Frankfort, Ky.

*Campbell, J.J.N., R.R. Cicerello, J.D. Kiser, J.R. MacGregor & A.C. Risk. 1993. Cooperative inventory of endangered, threatened, sensitive and rare species: Daniel Boone National Forest, Redbird Ranger District. Technical report by U.S. Forest Service, The Nature Conservancy, Kentucky State Nature Preserves Commission and Kentucky Department of Fish & Wildlife Resources. Kentucky State Nature Preserves Commission, Frankfort, Ky.

Taylor, N.L., J.M. Gillett, J.J.N. Campbell & S. Berger. 1994. Crossing and morphological relationships among native clovers of eastern North America. *Crop Science* 34:1097-1100.

*Campbell, J.J.N., J.R. Abbott, R.R. Cicerello, J.D. Kiser, J.R. MacGregor & J.G. Palis. 1994. Cooperative inventory of endangered, threatened, sensitive and rare species: Daniel Boone National Forest, London Ranger District. Technical report by U.S. Forest Service, The Nature Conservancy, Kentucky State Nature Preserves Commission and Kentucky Department of Fish & Wildlife Resources. Kentucky State Nature Preserves Commission, Frankfort, Ky.

Campbell, J.J.N., D.G. Ruch & W. Meijer. 1995. The flora and vegetation of Raven Run Nature Sanctuary, Fayette County, Kentucky. *Proceedings of the Indiana Academy of Science* 104:139-184. [See also 1990 technical report for Friends of Raven Run.*]

*Campbell, J.J.N. 1996. Classification of Forest, Soil and Land Types on Daniel Boone National Forest. Technical report to Daniel Boone National Forest. The Nature Conservancy, Kentucky Chapter, Lexington, Kentucky.

*Campbell, J.J.N., & T. Simmons. 1999. Fire Management Plan for Mammoth Cave National Park. The Nature Conservancy, Kentucky Chapter, Lexington, Kentucky.

*Campbell, J.J.N. 1999. [Botanical sections.] In J. Hohman (ed.). Biological Evaluation of Herbicide Application to Powerline Rights-of-Way. East Kentucky Power Inc., Winchester, Kentucky.

Campbell, J.J.N. 2000. Notes on North American *Elymus* species (Poaceae) with paired spikelets: I. *E. macgregorii* sp. nov. and *E. glaucus* ssp. *mackenzii* comb. nov. Transactions of the Kentucky Academy of Science (in press).

Campbell, J.J.N. 2000. Notes on North American *Elymus* species (Poaceae) with paired spikelets: II. The "interruptus group". Transactions of the Kentucky Academy of Science (being revised).

Campbell, J.J.N. 2000. Notes on North American *Elymus* species (Poaceae) with paired spikelets: III. A synoptic key. Transactions of the Kentucky Academy of Science (being revised).

Barkworth, M., & J.J.N. Campbell. 2001 (?). *Elymus*. In M.E. Barkworth, K.M. Capels & L.A. Vorobik (eds.). The Manual of North American Grasses (final draft submitted).

To be updated...

MANUSCRIPTS IN PREPARATION

Notes on the flora of Kentucky: these will be a series of miscellaneous taxonomic and distributional notes on overlooked or difficult taxa, including nomenclatural changes where necessary; they will constitute technical preparation for the Atlas; they will be submitted to Transaction of the Kentucky Academy of Science during 2000-2005.

Atlas of the Vascular Plants of Kentucky: a database of county records has been accumulated during the past 10 years, and has recently been linked with mapping software in ArcView format; during the next five years or so, the database will be intensively revised and additions made, in cooperation with other Kentucky botanists; a first edition of the Atlas may be submitted to the University Press of Kentucky during 2003-05, probably following the Guide to the Kentucky Flora edited by R. Jones (Eastern Kentucky University); then, together with illustrations, a complete flora may be possible by 2010-15.

Vegetation Types of Kentucky: this will be a synthesis of available data into a treatment that will be easily used by college students and professional biologists; it will incorporate a clear underlying model of ecological gradients, in addition to a hierarchical of classification and keys; the general structure has already been developed as part of technical reports produced during the past 12 years for government agencies; publication may be possible during 2010-2015.

Natural Regions of Kentucky and Conservation Priorities: this is a developing series of notes, organized as far as possible by regions, subsections and landtypes; it focusses on the best natural areas that are most representative of each biogeographic unit; it summarizes on ecosystem types and species patterns at each site, with a special emphasis on globally rare components; there are no definite publication plans, but this effort will develop within the context of The Nature Conservancy's programs, and might be fairly well polished by 2005-10.

OTHER LONG-TERM RESEARCH INTERESTS

Taxonomy and ecology of bamboos in North Temperate regions.

Ecomorphological patterns in woody plants of eastern North America.

Developing models of ecological segregation and evolution by synthesis of phylogenetic and ecological classification systems. By analyzing distribution patterns, eco-morpho-physiological correlations, and demographic patterns of plants in North Temperate forests, I am hope to approach the fundamental question: what controls the diversity of species, and how does diversity interact with general structure and function of forest ecosystems? I am particularly interested in the relative importance of direct ecological factors versus "historical" factors or genetic "constraints" that involve dispersal problems and evolutionary inertia. My original work concerns three reference areas: Britain and adjacent Europe; Kentucky and surrounding states; the Sino-Himalayan region and adjacent SE Asia. Although my work is mostly descriptive so far, I am developing field sampling strategies that can set up the meaningful natural comparisons, and I am planning specific manipulations of selected species (e.g., removing or planting species to investigate competition).