VITA

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Educational Background

B.S., Zoology	1973 Texas Tech University	Lubbock, TX
M.S., Botany	1975 Texas Tech University	Lubbock, TX
Ph.D., Botany	1980 Ohio State University	Columbus, OH

Faculty Experience

August, 1996-Present	Professor
August, 1985-1996	Associate Professor
August, 1980-1985	Assistant Professor of Biology, University of North Dakota

Administrative Experience

Associate Dean of Arts and Sciences, University of North Dakota, July 2006- Present

- Promote and facilitate research for a college of 19 departments and ~ 200 faculty. Facilitate the processing and review grant proposals and the publicity of funded projects.
- Serve as College representative/liaison on curricular matters. Prepare and/or review proposals for State Board approval of new academic programs. Provide oversight for Undergraduate Program reviews.
- Assist in the development of a college-wide space allocation plan and budget.
- Assist in the development of a chair compensation/expectation model
- Developed and implemented a Summer School class interest survey to assist in scheduling of summer classes
- Participate in College fund-raising activities

Chair of Biology, University of North Dakota, (elected, 2 @ 3yr terms) July 1997-2003

- Provide leadership for a department of 16 faculty members, over 300 majors, and a base budget of ~ $1.8M
- Scheduled courses to balance and maximize faculty research and departmental instructional needs
- Led the development of a departmental Strategic plan
- Faculty representative on University Planning and Budget Committee. Directly responsible for an initiative to target new tuition monies to faculty salaries. The Committee is also responsible for final approval of two University-wide Strategic

Plans.

- Faculty representative on Strategic Plan Subcommittee on Research
- Evaluate faculty for tenure, promotion, and merit.
- Recruited 4 new faculty members with increasing startup packages
- Responsible for staff hiring and evaluations
- Prepared the nomination and received University award for best Research Department

Chair of Art (Interim), University of North Dakota, September 2001 – July 2002

- Provide leadership for a department of 9 faculty members, over 75 majors, and a base budget of ~$1M
- Led the department to realize/develop a plan for new leadership and stable governance
- Refined accounting practices
- Redefined allocations for space and student assistants
- Recruited a new faculty member with startup package
- Improved various procedures (staff evaluations, class assignments, budget allocations, recruitment procedures, etc.)
- Note: Concurrent with my duties as Chair of Biology

University Service

Arts and Sciences Budget Committee, **Chair**
Arts and Sciences Executive Committee, member
Arts and Sciences Salaries Committee, member
Arts and Sciences Planning Committee for Environmental Science major, **Organizer**
Arts and Sciences Undergraduate Program Review Team member: Psychology, Physics
University Strategic Planning Committee, Sub-committee on Research, member
University Senate - Senator
University Senate - Special Review Committee, member
University Senate - Compensation Committee, member
University Academic Computing Advisory Committee, member
University Planning and Budget Committee, member

Professional Service

Financial Advisory Committee. Member, Botanical Society of America. 1997-1999.
Publicity Committee, Member, American Society of Plant Taxonomists. 1996-1999.
Internet Communications Committee, Member. American Society of Plant Taxonomists. 1996-2000.
Investment Advisory Committee, **Chair.** American Society of Plant Taxonomists. 1997-1999.
Chairman-elect/Chairman, (August, 1986-August, 1988), Treasurer, (August, 1982-August, 1984) Phytochemical Section, Botanical Society of America.
Nomination Committee, Member, American Society of Plant Taxonomists.
National Science Foundation Panel Member. Spring, 1997.

Reviewer, National Science Foundation, Biotic Systems and Resources – ongoing

Reviewer, American Journal of Botany, Botanical Journal of the Linnean Society, Brittonia, Madrono, Memoirs of the New York Botanical Garden, Molecular Ecology, Systematic Botany, Michigan Botanist, NOVON, Plant Biology, Plant Systematics and Evolution.
Representative to Editorial Board, American Journal of Botany, Phytochemical Section, Botanical Society of America. January, 1985 - December, 1986.
Webmaster, California Botanical Society, 2001-2003 (with Curtis Clark)

Professional Societies

American Society of Plant Taxonomists
Botanical Society of America
California Botanical Society
International Association for Plant Taxonomy
National Association of Biology Teachers
Society of Systematic Biologists
Society of the Sigma Xi
Southwestern Association of Naturalists

Awards and Honors

Outstanding Student Paper, Honorable Mention April 1975. Botanical Sciences Section, Southwest and Rocky Mountain Division, American Association for the Advancement of Science.
Ralph E. Alston Award August, 1979. Phytochemical section, Botanical Society of America.
Ron Butler, Outstanding Graduate Student Award. 1979-1980. Department of Botany, Ohio State University
Best Graduate Student Paper, 1980. Plant Sciences Section, Ohio Academy of Science.

Classes

Plant Systematics
Principles of Biology
Principles of Biology lab coordinator
Introductory Biology
Biogeography
Plant Morphology
Capstone Class
Seminars – various topics

Graduate Students

Gail F. Actor. Natural hybridization of *Cypripedium candidum* and *C. calceolus*. M.S. Biology. December, 1984.

Boyd Rasmussen. A phylogenetic analysis of selected Malvaceae based on rbcL sequence data. M. S. Biology. May, 1995.

Jonathan Wenger. Genetic structure and isolation by distance in *Napaea dioica* L. (Malvaceae): an analysis of microsatellite DNA variation. Ph. D. December, 2001

Member of approximately 11 additional graduate student committees.

Field Experience

Southwestern United States (primarily), Mexico, Guatemala.
Travel to: Ecuador, Peru, Austria, Switzerland, England

Research Grants

Acquisition of automated DNA sequencer. National Science Foundation, MRI. PI. with Austin, Young, Detke. September 2001 – August 31, 2005. $214,000.
Purchase of automated DNA sequencer for Biology Department. ND EPSCOR Equipment Grant. (with 6 other P.I.s). January 1999. $63,500.
Evolutionary relationships in the Malvaceae using molecular and morphological data. Co–PI with Paul Fryxell. NSF. April, 1995 – March, 2000. Plus REU supplement for April 1, 1996-March 31, 1997. $120,000.
Molecular Evolution in the Malvaceae. Alfred P. Sloan Foundation. August 15, 1990 – August 14, 1991. $27,270. Developmental Leave, John Doebley Lab.
Wildflower Survey. National Wildflower Research Center. July, 1989 - June, 1990.
Systematics of *Sphaeralcea*. National Science Foundation (EPSCoR).April, 1988 - March, 1991. $69,424.
Purchase of a Nuclear Magnetic Resonance Spectrophotometer (Chemistry). National Science Foundation. (as a participant with Chemistry Department Faculty). March, 1986 – August, 1987. $135,000.
Purchase of an Elemental Analyzer, Freeze Dryer, HPLC and Ultracold Freezer for Biological Research. National Science Foundation (EPSCoR). (participant with 6 other faculty) October, 1986. $114,817
Systematics of *Sphaeralcea* section Fendlerianae (Malvaceae). National Science Foundation. Supplement. April, 1984. $10,485.
PIN data sheets. U.S. Fish and Wildlife Service. Summer, 1982. $1,024.00.
Systematics of *Sphaeralcea* section Fendlerianae (Malvaceae). National Science Foundation. April, 1982 - March, 1985. $59,998.
Systematics of *Tithonia* Gmelin. (Compositae, Heliantheae). National Science Foundation Doctoral Dissertation Grant. August, 1976 - February, 1978. $4,500.

Manuscripts in Preparation

La Duke, J. C. A reevaluation of *Sphaeralcea* section *Fendlerianae*. For Brittonia.
La Duke, J. C. *Sphaeralcea*. For Flora of North America. And California Flora (submitted)

La Duke, J. C. *Herrissantia*. For Flora of North America. And California Flora
La Duke, J. C. *Horsfordia*. For Flora of North America.
La Duke, J. C. and P. Fryxell. Phylogenetic relationships of Malvaceae using RFLP data. II. For Systematic Botany.
La Duke, J. C. and N. Arevelo. The placement of *Cephalohibiscus* in the Gossypieae using ITS and ndhF data. For American Journal of Botany

Research Publications

La Duke, J. C. 2005. *Tithonia*. Pp. 138-139. IN: Flora of North America Editorial Committee. Flora of North America. Oxford University Press. New York.
Tate, J. A., J. F. Aguilar, S. J. Wagstaff, J. C. La Duke, T. A. B. Slotta, B. B. Simpson. 2005. Phylogenetic relationships within the tribe Malveae (Subfamily Malvoideae, Malvaceae) as inferred from ITS sequence data. American Journal of Botany 92:584-602. Cover
La Duke, J. *Sphaeralcea*. IN: C. Mason et al., (Eds.), Vascular Plants of Arizona. Accepted for publication.
La Duke, J. and J. Doebley. 1995. A chloroplast DNA based phylogeny of the Malvaceae. Syst. Bot. 20: 259-271.
La Duke, J. 1993. *Sphaeralcea*. pp. 760-762. IN: J. Hickman ed. The Jepson Manual: Higher Plants of California. University of California Press. Berkeley.
La Duke, J. 1989. *Sphaeralcea* IN: M. C. Johnston and J. J. Hendrickson. A Flora of the Chihuahuan Desert Region. (In Press forever).
La Duke, J. C. and P. Fryxell. 1988. Lectotypification of *Malva angustifolia* Cav. Jardin Bot. Madrid 45: 159-163.
Bayer, R., J. La Duke, and D. Crawford. 1987. Isozyme variation in *Trillium nivale* (Liliaceae). Can. J. Bot. 65: 2250-2254.
La Duke, J. C. 1987. The existence of hypotheses in plant systematics or biting the hand that feeds you. Taxon 36: 60-64.
Facey, V.L., J. C. La Duke, and A. M. Wyckoff. 1986. Vascular plants of Oakville Prairie, North Dakota. Prairie Nat. 18: 203-210.
La Duke, J. C. 1986. Chromosome numbers in *Sphaeralcea* section *Fendlerianae*. Amer. J. Bot. 73: 1400-1404.
La Duke, J. C. and T. Remple. 1985. Additional chromosome numbers in *Tithonia* (Compositae). Rhodora 87: 563-564.
La Duke, J. C. 1985. A new species of *Sphaeralcea* (Malvaceae) Southwestern Natur. 30: 433-436.
Nesom, G. L. and J. C. La Duke. 1985. Biology of *Trillium nivale* (Liliaceae). Can. J. Bot. 67: 7-14.
La Duke, J. C., D. Lank, and T. Sirek. 1984. Utilization of statistical analysis system (SAS) as a revisionary tool and cataloguing program. Assoc. Syst. Collect. Newsl. 12: 13-14.
La Duke, J. C. 1982. Revision of *Tithonia*. Rhodora. 84: 453-522.
La Duke, J. C. 1982. A new species of *Tithonia* (Compositae) and infrageneric classification. Rhodora. 84: 139-141.
La Duke, J. C. 1982. Flavonoid chemistry and systematics of *Tithonia* (Compositae). Amer. J. Bot. 69: 784-792.

La Duke, J. C. and D. DiFeo, Jr. 1981. The identification of *Tithonia* voucher specimens used for sesquiterpene lactone investigations. Nordic J. Bot. 1: 293-295.

Crawford, D. and J. C. La Duke. 1979. Character compatibility and phyletic relationships among several closely related species of *Chenopodium* of the western United States. Taxon 28: 307-314.

Gardner, R. C. and J. C. La Duke. 1978. Phyletic and cladistic relationships in *Lipochaeta* DC (Compositae). Syst. Bot. 3: 197-207.

La Duke, J. C. and D. Northington. 1978. The systematics of *Sphaeralcea coccinea* (Nutt.) Rydberg. Southwestern Natur. 23: 651-660.

Non-research publication

Laboratory manual for non-majors labs. Multiple editions (~20) and still in use.

Contributed/Invited Presentations

Genetic structure and isolation-by-distance suggest a role for riparian corridors in the post-glacial natural history of *Napaea dioica* L. J.P. Wenger, first author, American Society of Plant Taxonomists. August 12-16, 2001.

Morphological and molecular support for the Malvaceae sensu stricto. Co-presenter, P. Fryxell. Invited presentation. International Botanical Congress. August 1-7, 1999.

The use of learning summaries in systematic botany instruction: an alternative to exams. Botanical Society of America. Teaching Section. August 5, 1998.

Phylogenetic relationships in the Malvaceae: RFLP and morphological data. (Poster). P. Fryxell and J. Jovonovich -Alvillar co-presenters. American Society of Plant Taxonomists. August 4-6, 1998.

Microsatellite DNA length and sequence variation in *Napaea dioica* L. (Poster). J. P. Wenger co-presenter. American Society of Plant Taxonomists. August 4-6, 1997.

Phylogenetic relationships in the Malvaceae: a morphological study. Paul Fryxell, co-presenter. American Society of Plant Taxonomists. August 10, 1994.

Phylogenetic relationships within the Malvaceae. (with John Doebley). American Society of Plant Taxonomists. August 5, 1991.

Flavonoids of *Sphaeralcea* section "*Fendlerianae*". Botanical Society of America. August 15, 1988.

Systematic relationships in *Sphaeralcea* section *Fendlerianae*. American Society of Plant Taxonomists. August 13, 1985.

The relationships of *Sphaeralcea* taxa using chromosomal data. Third International Congress of Systematics and Evolutionary Biology. July 6, 1985.

Utilization of SAS as a revisionary tool and cataloguing program. (with David Lank and Tim Sirek). American Society Plant Taxonomists August 10, 1982.

The biology of *Trillium nivale* Riddell. (with Guy Nesom, Dan Crawford, and Randall Bayer). American Society of Plant Taxonomists. August 18, 1981.

The systematics of *Tithonia* (Compositae). Ohio Academy of Science. April 19, 1980. Second International Congress of Systematics and Evolutionary Biology. July 22, 1980.

The flavonoid chemistry and systematics of *Tithonia* Desf. (Compositae). Botanical Society of America. August 13, 1979.

The use of character compatibility for generating hypotheses for phyletic relationships among several species of *Chenopodium*. Ohio Academy of Science. April 22, 1978. American Society of Plant Taxonomists. June 27, 1978.

The flavonoid constitutents of *Tithonia* Desf. Ohio Academy of Science. April 22, 1978.

Phyletic and cladistic relationships in *Lipochaeta* DC (Compositae). (with Robert Gardner - presented paper). American Society of Plant Taxonomists. August 23, 1977.

The systematics of *Sphaeralcea coccinea* (Nutt.) Rydb. Ohio Academy of Science. April 23, 1976.

Seasonal flavonoid variation and sex expressions in *Atriplex canescens*. Southwestern and Rocky Mountain Division, American Association for the Advancement of Science. April, 1975.

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