VITA July 2021

DAVID W. LEE

Professor Emeritus, Department of Biological Sciences

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PERSONAL:

Born: 10 December 1942 in Wenatchee, Washington. Societies: Sigma Xi, Botanical Society of America.

Languages: English; French (read, write and speak);

Malay (speak).

Family: Wife Carol, married in 1972; children Sylvan (born 1977), Katy (born 1979).

EDUCATION:

1970	Ph.D. in Botany, Rutgers University, New Brunswick, New Jersey.
1968	M.S. in Botany, Rutgers University.
1966	B.S. in Biology <i>cum laude</i> , Pacific Lutheran University, Tacoma, Washington.
1961	Diploma, Ephrata Senior High School, Ephrata, Washington.

EXPERIENCE:

Employment

2007-2008	The Kampong, of the National Tropical Botanical Garden. Director.
2006-2007	Florida International University. Chairperson of the Department of Biological
	Sciences.
1994-97	Florida International University. Chairperson of the Department of Environmental
	Studies.
1980-2009	Florida International University. Associate Professor 1983, Professor 1991.
1978-80	Self-employed as a carpenter and in operating a mail order business In Warwick,
	NY. Teaching at Upsala College and Orange County Community College.
1977-78	Maître de Conférènce Associé (Visiting Professor) Institute Botanique, Université
	Montpellier II, France.
1973-76	Lecturer, Department of Botany, University of Malaya, Kuala Lumpur, Malaysia.
1970-72	Post-doctoral Fellow, then Instructor and Research Associate, at the Ohio State
	University, Columbus. In Microbiology, Botany, and the Institute of Polar
	Studies.

Research

2005	Field Research in Malay	zsia. Thailand and SW	China (Yunnan)
2003	i icia ixescarcii ili iviala	isia, i mamama ama si w	Cillia (I dilliali)

1997-2014 Everglades: functional ecology of wetlands plants

1998 & 2004 Harvard Forest: dynamics of pigment change during leaf senescence;

1999 Plant secondary chemistry in the canopy and understory: Operation Canopee, La

1988-now	Makande, Gabon. Tropical forest ecology, forest tree seedling development, functional ecology:
	Asia.
1980-2009	Evolution and adaptation in humid forest plants; environmental problems in developing countries; agroforestry. Field research in Costa Rica, Panama, Honduras, Haiti, India and Malaysia.
1979-80	Honorary Research Associate, New York Botanical Garden.
1977-78	In France: tropical botany, tree architecture, field research in French Guyana.
1976-77	Travel and field research: India, Syria, Greece, Egypt, Tunisia, Morocco, Spain, France, Switzerland, England, United States.
1973-76	Malaysia and surrounding countries. Tropical botany: the biochemistry of seed proteins and leaf adaptations in tropical humid forest plants, extensive
fieldwork.	
1970-72	The Ohio State University: plant tissue culture, plant population biology, protein biochemistry and enzymology.
1966-70	Rutgers University. Protein biochemistry, immunology and plant systematics.
Education	
1980-2009	Taught and developed courses in general biology, botany, economic botany, plant physiology, tropical botany, plant morphology, the meaning of the garden, senior seminar, graduate level tropical botany, photobiology, biochemical ecology, scientific method, functional ecology of tropical plants, teaching for Dade County Schools: laboratory methods and remedial biology, summer
camp	
-	for gifted students, presentations to gifted students K-8.
1978-80.	Taught general biology and anatomy and physiology for nurses at Orange County Community College; taught general biology and environmental
science at	Upsala College. Taught general science for 5th and 6th
graders at the	·
	School in Warwick, NY. Developed slide programs as teaching aids.
1977-78	Taught advanced tropical botany and senior botany in French.
1973-76	Taught morphology of pteridophytes and gymnosperms, general biology, experimental taxonomy, and honors seminar at the University of Malaya. Developed teaching aids for the Ministry of Education with a Ford Foundation Grant.
1970-72	Taught general botany, lectured in cell biology, and taught a graduate seminar for the Institute of Polar Studies. Developed three large multi-media educational presentations with the Teaching Aids Laboratory at OSU.
1966-70	Assisted in General Biology.

Service

Florida International University.

Departmental: Human Resources Committee, 1980-82, 1999-2001; Graduate Committee, 1982-90, 93-92 (chair 82-84, established M.S. program); Curriculum Committee Chair, 1985-87, 2003-04; Alumni Affairs chair, 1989-94; Awards, 89-92; Glaser Committee 1991-93; Chair, Department of Environmental Studies, 1994-97 (inaugurated department); chaired search committees, 1982, 1992, 1998;

College/University: Environmental Council 1980-93 (chaired program review 1991); United Faculty of Florida, departmental steward 1985-91; coordinated collaboration with Fairchild Tropical Garden 1985-1993 (established this); Arts & Sciences Tenure and Promotion Committee 1987, 1996, 2000, 2003; Faculty Senate 1989-92, 2000-03; Chair of Sabbatical Leave Committee, 1991; Landscape Advisory Committee 1986-94 (established and chaired, 1986-1988); Environmental Management Advisory Committee 1995-97; Athletic Council 1995-98 (chaired men's basketball search 1995); Environmental expert for Statewide Course Numbering System, 1995-98; Affiliated Faculty in Religious Studies 1996-; Arts and Sciences Research Awards Committee 1989-91; TIP and PEP Awards Committee (college and university) 1996; Advisory Board Center for Spirituality 2004-; Faculty Senate Strategic Planning Committee 2006-2007; Faculty Senate Buildings and Environment Committee 2006-2007; Faculty Senate Preserve Committee 2002-2007.

University of Malaya.

Board of Directors, Malayan Nature Society 1973-76, helped established Rimba Ilmu, the premier botanical garden in Malaysia.

Professional.

Botanical Society of America 1966-: symposium chair 1992, 2001; Tropical Botany Section Treasurer 1997-2000; Education Committee 2003-; Treasurer Structural and Development Committee 2005-2008. Tropical Botany chair for Botany for the Millenium 1997-98; meeting co-

organizer, ATBC, Miami, 2005. Frequent reviewer for: Journal of Tropical Ecology, Biotropica,

Oecologia, American Journal of Botany, Canadian Journal of Botany, Plant, Cell and Environment,

International Journal of Plant Science, Functional Ecology, New Phytologist.

AWARDS

Elected to Sigma Xi 1967, full member 1969.

CIES Indo-American Fellowship Award 1984, in India 8/84-7/85.

Charles Bullard Fellowship award at Harvard Forest 1998 and 2004.

Florida International University Award for Service 1993.

Florida International University Award for Research 1995.

TIP recipient (teaching incentive program) award for State University System, 1993.

PEP recipient (professional enhancement program, for senior faculty) award for State University System, 2000.

Sabbatical Leave Awards from Florida International University, 1988-89, 1998-99 and 2005.

FIU Alumni Association, Outstanding Faculty Award, March, 2007.

Best Scholarly Book in the Biological Sciences for 2007, American Association of Publishers.

Finalist, Outstanding University Professor, 2009, Council of 100, Florida International University.

Awardee, Distinguished Fellow of the Botanical Society of America, 2019 (its highest award).

FUNDING:

1974-76 Lectins in Southeast Asian Legumes, NIH \$8700, 1974-76.

1975-76	Filmstrips for Biology Education in Malaysian Schools, Ford Foundation
\$15,000.	
1981-82	The growth of shade plants in tropical humid forests, FIU Foundation \$4900.
1983-86	Leaf structure and function in tropical humid forest shade, Whitehall Foundation \$31,970.
1984-85	Biology of Indian forest plants, CIES Indo-American Fellowship Program appr. \$35,000.
1989-90	Growth chambers: instrumentation for botanical research, NSF \$54,212, co-PI with KR Downum.
1989-90	Improving experimental laboratories in undergraduate plant sciences, NSF \$62,002, co-PI with JH Richards.
1988	Heteroblasty in tropical forest vines, Provost's Summer Award \$7948.
1988-89	Blue iridescence in tropical rainforest plants, American Philosophical Society \$1950.
1991	The function of anthocyanins in leaves of tropical forest understory plants, Provost's Summer Award \$9971, 1991.
1991-94	Effects of light quality and quantity on the developmental ecology of Malaysian forest trees, NSF BSR-9020137, \$113,000, 5/91 to 8/94, REU supplement
1993,	\$8400, travel supplement 1994, \$1800, 3M materials donation
appr. \$12,000	. 1992 Effects of light quality and quantity on the developmental
ecology of Inc	dian forest trees, NSF International Programs travel grant to
India, appr. \$2	2,000
1991-93	The Miami Tree Puzzle, Pearce Foundation and FIU/FAU Joint Center, \$5,000 + \$6960, 9/91 to 6/93.
1997-2001	Effect of Light Quality and Quantity on the developmental ecology of Indian Forest Trees, NSF International Programs 7/97-6/2000, Rupees 1.2 million
and	US \$28,800.
1997-2003	Numerical Interpretation of Class III Narrative Nutrient Water Criteria for Everglades Wetlands, various federal agencies, 1997-2002, co-PI, macrophyte portion approx. \$80,000/yr.
1998	Charles Bullard Fellowship, Harvard University. \$11,000 7-12/98 & 7-12/04.
1999	Operation Canopée travel and field stipend, La Makande, Gabon, \$3500.
1998-2001	Royal Society Marsden Grant, Anthocyanin charactisation and function in leaves of native New Zealand plants (co-PI with Kevin Gould), \$3000 (\$240,000)
total).	
2004	Charles Bullard Fellowship continuation, Harvard University, \$20,500, 7/04-
12/04.	
2005-2009	National Park Service, Everglades National Park, the slough project (co-PI with Jenny Richards. My portion ~25k/year.
2007	National Geographic Society Committee on Exploration, \$11,800, Iridescent blue plants in Southeast Asia.

GRADUATE STUDENTS

M.S.: Allan Herndon, 1988; Daniel Buisson, 1991; Rita Graham, 1992; Maureen

Sullivan, 1997; Wesley Rogers, 2000; Martin Roberts, 2000; Robert Kirby, Environmental Studies, 2000.

Ph.D.: Braulio Saenz, 2002; Jai Sah, 2002; Julissa Roncal, 2005; Robin Curry, 2009; Cary Pirone, 2010.

COURSES TAUGHT (during the past five years)

BOT 3014 + L Plant Life Histories

BSC 1011 General Biology II (first half, evolution and biodiversity, excepting Animalia)

BOT 1010 Introductory Botany (0.5 and 1.0 on different occasions)

BOT 3663 + L Tropical Botany

IDS 4920 Liberal Studies Colloquium: Meaning of the Garden

BSC 4931 Senior Seminar

BSC 3364 Research in Tropical Ecosystems