

VITA **August 2007**

DAVID W. LEE

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PERSONAL:

Born: 10 December 1942 in Wenatchee, Washington.

Societies: Sigma Xi, Botanical Society of America, Association for Tropical Biology and Conservation

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

Family: Wife Carol, married in 1972; children Sylvan (29), Katy (28).

EDUCATION:

1970 Ph.D. in Botany, Rutgers University, New Brunswick, New Jersey.

1968 M.S. in Botany, Rutgers University.

1966 B.S. in Biology *cum laude*, Pacific Lutheran University, Tacoma, Washington.

1961 Diploma, Ephrata Senior High School, Ephrata, Washington.

EXPERIENCE:

Employment

2007-now 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-now 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 Conférence 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 Malaysia, Thailand and SW China (Yunnan)
- 1997-now 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 Makande, Gabon.
- 1988-now Tropical forest ecology, forest tree seedling development, functional ecology: Asia.
- 1980-now 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-now 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 Amity 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-. Tropical Botany chair for Botany for the Millenium 1997-98. 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.

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

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 Indian forest trees, NSF International Programs travel grant to India, appr. \$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 7/98-12/98.
- 1999 Operation Canopée travel and field stipend, La Makande, Gabon, \$3500.
- 1998-2001 Royal Society Marsden Grant, Anthocyanin characterisation and function in leaves of native New Zealand plants (co-PI with Kevin Gould), \$240,000.
- 2004 Charles Bullard Fellowship continuation, Harvard University. \$20,500, 7/04-12/04.
- 2005- 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
 Current: Robin Curry, Ph.D.; Cary Pirone, Ph.D.

PUBLICATIONS

Articles in Refereed Journals

- Gaiser, E.E., J. Trexler, J. Richards, D. Childers, **D. Lee**, A.L. Edwards, L. Scinto, K. Jayachandran, G. Noe and R. Jones. 2005. Cascading ecological effects of low-level phosphorus enrichment in the Florida Everglades. *Journal of Environmental Quality* 34:717-723.
- Edwards, A.L., **D.W. Lee**, and J.H. Richards. 2003. Responses to a fluctuating environment: effects of water depth on growth and biomass allocation in *Eleocharis cellulosa* Torr. (Cyperaceae). *Canadian Journal of Botany* 81:964-975.
- Lee, D.W.**, J. O'Keefe, N.M. Holbrook and T.S. Field. 2003. Pigment dynamics and autumn leaf senescence in a New England deciduous forest. *Ecological Research* 18:677-694.
- Veach, R., **D.W. Lee** and T. Philippi. 2003. Human disturbance history and forest diversity in the Tansa Valley, India. *Biodiversity Conservation* 12:1051-1072.
- Noe, G. *et al.* 2002. Short-term changes in phosphorus storage in an oligotrophic Everglades wetland ecosystem receiving experimental nutrient enrichment. *Biogeochemistry* 59:239-267.
- Fisher, J.B., U. Posluszny and **D.W. Lee**. 2002. Shade promotes thorn development in a tropical liana, *Artabotrys hexapetalus* (Annonaceae). *International Journal of Plant Science* 163:295-300.
- Richards, J.H. and **D.W. Lee**. 2002. To see...heaven in a wildflower: teaching botany in the 21st century. *American Journal of Botany* 89:172-176.
- Downum, K.R., **D.W. Lee**, F. Hallé, M. Quirke and N. Towers. 2001. Plant secondary compounds in the canopy and understory of a tropical rainforest in Gabon. *Journal of Tropical Ecology* 17:477-481.
- Feild, T., **D.W. Lee** and M.Holbrook. 2001. Anthocyanins and photoprotection in senescing autumn leaves of red-osier dogwood (*Cornus stolonifera*). *Plant Physiology* 127:566-574.
- Lee, D.W.** and T.M Collins. 2001. Phylogenetic and ontogenetic influences on the distribution of anthocyanins and betacyanins in leaves of tropical plants. *International Journal of Plant Science* 162:1141-1153.
- Lee, D.W.**, S. Oberbauer, P. Johnson, B. Krishnapilay, M. Mansor, H. Mohamad, and S.K. Yap. 2000. Effects of irradiance and spectral quality on leaf structure and function in seedlings of two Southeast Asian *Hopea* species. *American Journal of Botany* 87:447-455.
- Lee, D.W.**, G. Taylor and A. Irvine. 2000. Structural fruit coloration in *Delarobrea michieana* (Araliaceae). *International Journal of Plant Science* 161:297-300.
- Lee, D.W.** 2000. Structural coloration in vascular plants. *Photonics Science News* 6:54-60.
- Smith, S. M. and **D.W. Lee**. 1999. Effects of light quantity and quality on early seedling development in the red mangrove, *Rhizophora mangle* L. *Bulletin of Marine Science* 65:795-806.
- Lee, D.W.**, S. Oberbauer, K. Baskaran, M. Mansor, H. Mohamad and S.K. Yap. 1999. Effects of irradiance and spectral quality on the development of jelutong seedlings. *Journal of Tropical Forest Science* 11:132-147.
- Lee, D.W.** 1998. The biology of rudraksha. *Current Science (Bangalore)* 75:26-30.

- Lee, D.W.**, with S. Oberbauer, K. Baskaran, M. Mansor, H. Mohamad and S.K. Yap. 1997. Effects of irradiance and spectral quality on the development of two *Hopea* species. *Oecologia* 110:1-9.
- Gould, K. and **D. W. Lee**. 1996. Physical and ultrastructural basis of blue leaf iridescence in four Malaysian understory plants. *American Journal of Botany* 83:45-50.
- Lee, D.W.**, K. Baskaran, M. Mansor, H. Mohamad and S.K. Yap. 1996. Light intensity and spectral quality effects on Asian tropical rainforest tree seedling development. *Ecology* 77:568-580.
- Lee, D.W.**, K. Baskaran, M. Mansor, H. Mohamad and S.K. Yap). 1996. Seedling development of *Gonostylus bancanus* (Ramin Melawis) in response to light intensity and spectral quality. *Journal of Tropical Forest Science* 8:520-531.
- Gould, K., D. Kuhn, **D.W. Lee** and S. Oberbauer. 1995. Why leaves are sometimes red. *Nature* 378:241-42.
- Graham, R.M., **Lee, D.W.**, and K. Norstog. 1993. Physical and ultrastructural basis of blue leaf iridescence in two neotropical ferns. *American Journal of Botany* 80:198-203.
- Buisson, D. and **D.W. Lee**. 1993. The developmental responses of papaya leaves to simulated canopy shade. *American Journal of Botany* 80:947-952.
- Lee, D.W.** and K. Downum. 1991. The spectral distribution of biologically active solar radiation at Miami, Florida, USA. *International Journal of Biometeorology* 35:48-54.
- Lee, D.W.** 1991. Ultrastructural basis and function of iridescent blue colour of fruits in *Eleocarpus*. *Nature* 349:260-262.
- Lee, D.W.**, R. Bone, S. Tarsis and D. Storch. 1990. Correlates of leaf optical properties in tropical forest extreme shade and sun plants. *American Journal of Botany* 77:370-380.
- Lee, D.W.** 1989. Canopy dynamics and light climates in a tropical moist deciduous forest. *Journal of Tropical Ecology* 5:65-79.
- Lee, D.W.** and K. Paliwal. 1988. The light climate of a South Indian tropical evergreen forest. *GeoBios* 15:3-6.
- Lee, D.W.** 1988. Simulating forest shade to study the developmental ecology of tropical plants: juvenile growth in three vines. *Journal of Tropical Ecology* 4:281-292.
- Lee, D.W.** 1987. The spectral distribution of radiation in two neotropical rain forests. *Biotropica* 19:161-166.
- Lee, D.W.**, S. Brammeier and A.P. Smith. 1987. The selective advantages of anthocyanins in developing leaves of mango and cacao. *Biotropica* 19:40-49.
- Lee, D.W.** and S.L. Patel. 1987. Leaf optical properties and spectral environments of five rabi crops in Maharashtra, India. *Tropical Agriculture* 64:329-332.
- Lee, D.W.** and R. Graham. 1986. Leaf optical properties of tropical forest extreme shade and sun plants. *American Journal of Botany* 73:1100-1108.
- Richards, J.H., and **D.W. Lee**. 1986. Light environments and developmental control of leaf morphology in water hyacinth (*Eichhornia crassipes* Solms.) mats. *American Journal of Botany* 73:1741-1777.
- Lee, D.W.**, K. Paliwal, K.A. Patel and D.N. Sen. 1986. Leaf optical properties of some Indian plants. *Current Science (Bangalore)* 55:923-925.
- Lee, D.W.** 1985. Duplicating foliage shade for research on plant development. *HortScience* 20:116-118.
- Bone, R.A., **D.W. Lee** and J.M. Norman. 1985. Epidermal cells function as lenses in leaves of tropical rainforest shade plants. *Applied Optics* 24:1408-1412.

- Héban, C. and **D.W. Lee**. 1984. Ultrastructural basis and developmental control of blue iridescence in *Selaginella* leaves. *American Journal of Botany* 71:216-219.
- Lee, D.W.** 1979. Biological activity of seed proteins in Malesian legumes *Biotropica* 12:75-86.
- Lee, D.W.**, J.B. Lowry and B.C. Stone. 1979. Abaxial anthocyanin layer in leaves of tropical rain forest plants: enhancer of light capture in deep shade. *Biotropica* 11:70-77.
- Lowry, J.B., **D.W. Lee** and C. Héban. 1980. The origin of land plants: a new look at an old problem. *Taxon* 29:183-197.
- Lee, D.W.** and J.B. Lowry. 1980. Young-leaf anthocyanin and solar ultraviolet. *Biotropica* 12:75-76.
- Lee, D.W.** and J.B. Lowry. 1980. Solar ultraviolet on tropical mountains: can it affect plant speciation? *American Naturalist* 115:880-883.
- Lee, D.W.** and J.B. Lowry. 1980. Plant speciation on tropical mountains: *Leptospermum* (Myrtaceae) on Mount Kinabalu, Borneo. *Botanical Journal of the Linnean Society* 80:223-242.
- Lee, D.W.** 1977. On iridescent plants. *Gardens Bulletin (Singapore)* 30:21-29.
- Lee, D.W.**, G.S. Tan and F.Y. Liew. 1977. A survey of lectins in Southeast Asian Leguminosae. *Planta Medica* 31:83-93.
- Gan, Y.Y., F.W. Robertson, P.S. Ashton, E. Soepadmo and **D.W. Lee**. 1977. Genetic variation in wild populations of rainforest trees. *Nature* 269:323-325.
- Lee, D.W.** 1975. Population variation and introgression in North American *Typha*. *Taxon* 24:633-641.
- Lee, D.W.** and J.B. Lowry. 1975. Iridescent blue plants: physical basis and ecological significance. *Nature* 254:50-51.
- Lee, D.W.**, K.P. Yap and F.Y. Liew. 1975. Serological evidence on the distinctness of the monocot families Flagellariaceae, Hanguanaceae and Joinvilliacae. *Botanical Journal of the Linnean Society* 70:77-81
- Lee, D.W.**, V. Yao and F.Y. Liew. 1975. Lectins in some Malaysian legume species. *Malaysian Journal of Science* 3(A):89-93.
- Lee, D.W.** and R.L. Postle. 1975. Isozyme variation in *Colobanthus quitensis* (Kunth.) Bartl.: methods and preliminary analysis. *British Antarctic Survey Bulletin* 41 & 42:133-137.
- Lowry, J.B., N. Ng, T.M. Wong and **D.W. Lee**. 1976. Flavonols lacking 5-substituents in heartwood of some tropical Leguminosae. *Biochemical Systematics and Ecology* 4:177-180.
- Lee, D.W.** and D.K. Dougall. 1973. Isozyme analysis of wild carrot cells cultured in the presence and absence of 2,4-D. *In Vitro* 8:337-342.
- Lee, D.W.** and D.E. Fairbrothers. 1973. Enzyme differences between adjacent parent and hybrid cat-tail populations. *Bulletin of the Torrey Botanical Club* 100:3-11.
- Lee, D.W.** 1973. Glutamate dehydrogenase isoenzymes in *Ricinus communis* seedlings. *Phytochemistry* 22:2631-2634.
- Lee, D.W.**, J.B. Lowry and B.C. Stone. 1973. Effect of drought on Mount Kinabalu. *Malayan Nature Journal* 26:178-179.
- Lee, D.W.** and D.K. Dougall. 1972. Visualization of glutamine synthetase in polyacrylamide gels. *Analytical Biochemistry* 47:313-14.
- Lee, D.W.** and D.E. Fairbrothers. 1971. The placement of the Typhales within the monocots: a preliminary serological investigation. *Taxon* 21:39-44.
- Lee, D.W.** and D.E. Fairbrothers. 1969. A serological and disc electrophoretic study of North American *Typha*. *Brittonia* 21:227-243.

Book Chapters

- Hörtensteiner, S. and **D.W. Lee**. 2007. Chlorophyll catabolism and leaf coloration. In G. Susheng, ed.: Senescence processes in plants. Annual Plant Reviews, Blackwell Scientific, Oxford, UK. Vol. 26:12-38.
- Lee, D.W.** 2002. Anthocyanins in leaves: distribution, phylogeny and development, pp. 37-53. In K.S. Gould and D.W. Lee, eds.: Anthocyanins and Leaves: the function of anthocyanins in vegetative organs. Advances in Botanical Research, Academic Press, London.
- Lee, D.W.** and K.S. Gould. 2002. Anthocyanins in leaves and other vegetative organs: an Introduction, pp. 1-16. In K.S. Gould and D.W. Lee, eds.: Anthocyanins and Leaves: the function of anthocyanins in vegetative organs. Advances in Botanical Research, Academic Press, London.
- Lee, D.W.** 2002. Anthocyanins in autumn leaf senescence, pp. 147-165. In K.S. Gould and D.W. Lee, eds.: Anthocyanins and Leaves: the function of anthocyanins in vegetative organs. Advances in Botanical Research, Academic Press, London.
- Childers, D. et al. 2002. Quantifying the effects of low-level phosphorus additions on unenriched Everglades wetland with *in situ* flumes and phosphorus dosing, pp. 126-152. In K. Porter and J. Porter, eds.: The Everglades hydroscape. St. Lucie Press, Delray Beach.
- Lee, D.W.** 2001. Leaf colour in tropical plants: some progress and much mystery. In K.M. Wong, ed.: Proceedings of the Stone Memorial Symposium. Malayan Nature Journal 55:117-131.
- Lee, D.W.**, S. Oberbauer, B. Krishnapilay and M. Mansor. 2001. Seedling shade responses and functional ecology of *Hopea helferei* and *H. odorata*, pp. 170-175. In M. Cox and C. Elouard, eds.: Proceedings of the Sixth round-table of the dipterocarps. Curtin University of Technology, Perth.
- Lee, D.W.** 2000. A natural history of the Ramayana, pp. 245-268. In C. Chapple and A. Sharma, eds.: Hinduism and ecology. Harvard University Press, Cambridge.
- Lee, D.W.**, S.F. Oberbauer, K. Baskaran, M. Mansor, H. Mohamad and S.K. Yap. 1996. Forest shade and seedling development in five dipterocarps. In S. Appahah and K.C. Khoo, eds.: Proceedings of the Fifth round table on dipterocarps. Forest Research Institute of Malaysia, Kuala Lumpur, pp. 102-116.
- Chazdon, R.L., R.W. Pearcy, **D.W. Lee** and N. Fetcher. 1996. Photosynthetic responses to contrasting light environments. In K. Winter and S. Mulkey and Robin Chazdon, eds.: Tropical forest plant ecophysiology. Chapman and Hall, New York, pp. 5-55.
- Lee, D.W.** and J.H. Richards. 1991. Heteroblastic development in vines. In H.A. Mooney and F.H. Putz, eds.: The biology of vines. Cambridge University Press, New York, pp. 205-243.
- Lee, D.W.** 1986. Unusual strategies of light absorption in rainforest herbs. In T. Givnish, ed.: The economics of plant form and function. Cambridge University Press, New York, pp. 105-131.
- Lee, D.W.** 1977. Toxic substances in legume seeds and their relevance to crop improvement. In H.F. Chin, I.C. Enoch and R.M. Raja Harun, eds.: Seed technology in the tropics. Penerbit Universiti Pertanian Malaysia, Serdang, pp. 103-110.
- Lee, D.W.** 1977. Lectins, legumes and botanical gardens. In B.C. Stone, ed.: The aims and goals of tropical botanic gardens. University of Malaya Press, Kuala Lumpur, pp. 151-157.

Books

- Lee, David W.** 2007. *Nature's Palette: The Science of Plant Color*. University of Chicago Press, Chicago, 409 p.
- Halle, Francis. 2002. In *Praise of Plants*. Timber Press, Portland, OR. (translation and forward by **David W. Lee** for *Éloge de la plante*, by F. Hallé, Editions Seuil, Paris, 1999).
- Gould, K.S. and **D.W. Lee**, eds. 2002. *Anthocyanins and Leaves: the function of anthocyanins in vegetative organs*. *Advances in Botanical Research*, Academic Press, London.
- Lee, D.W.** 1985. *Trees of Gurudev Siddha Peeth*. Gurudev Siddha Peeth, Ganeshpuri, India. 87 p.
- Lee, D.W.** 1980. *The sinking ark: environmental problems in Southeast Asia*. Heinemann Educational Books, Kuala Lumpur. 85 p.
- Williams, C.N. and **D.W. Lee**. 1978. *Ulangkaji kajihayat moden untuk SPM*. Penerbit Fajar Bakti, Kuala Lumpur. 174 p. (Bahasa Malaysia version of 1976 book)
- Lee, D.W.**, B.C. Stone, M. Ratnasabapathy and T.T. Khoo. 1977. *The natural history of Pulau Tioman*. Merlin Samudra Tioman, Kuala Lumpur, 69 p.
- Williams, C.N. and **D.W. Lee**. 1976 *Modern biology: modern certificate guides*. Oxford University Press, Kuala Lumpur. 160 p.

Popular Articles (non-refereed)

- Lee, D.W.** 2005. Plant pigments and their manipulation (book review). *Annals of Botany* 96:1332-1333.
- Lee, D.W.** 2004. Medicines from the tropical rainforest canopy. *Plant Talk* 36:46.
- Lee, D.W.** 2004. Architectures de plantes (book review). *Plant Science bulletin* 50:85-86.
- Lee, D.W.** 2003. Homage due (review of book about Alwyn gentry). *Conservation Biology* 17:1193-1195.
- Lee, D.W.** and Kevin Gould. 2002. Why leaves turn red. *American Scientist* 90:524-531.
- Lee, D.W.** 1997. Iridescent blue plants. *American Scientist* 85:56-63.
- Lee, D.W.** 1997. Iridescent blue fern. *Biophotonics International* 4(2):86-87.
- Lee, D.W.** 1995. The meaning of the garden. *Fairchild Tropical Garden Bulletin* 50(2):14.
- Lee, D.W.** 1994. Rudraksha. *the Taj Magazine* 23(2):56-60.
- Lee, D.W.** 1992. Dandaka forest. *Darshan Magazine* #68(October):14-18.
- Lee, D.W.** 1991. The silent valley. *Darshan Magazine* #57(December):79-81.
- Lee, D.W.** 1990. The sacred forest. *Darshan Magazine* #36(March):68-75.
- Lee, D.W.** 1989. Digota: an Indian Village. *Fairchild Tropical Garden Bulletin* 44:6-17.
- Lee, D.W.** and David Butler. 1986. How plants use light. *The light environments in shade houses*. *Nurserymen's Digest* 20(10):77-81.
- Lee, D.W.** 1985. The durian. *Fairchild Tropical Garden Bulletin* 40:18-27.
- Lee, D.W.** and David Butler. 1984. The light environments in shade houses. *Light and its measurement*. *Nurserymen's Digest* 18(11):82-85.
- Lee, D.W.** 1983. Monster plants: a history. *Fairchild Tropical Garden Bulletin* 38(3):6-11.
- Lee, D.W.** 1982. Botanical education in South Florida. *Fairchild Tropical Garden Bulletin* 37(1):6-15.
- Lee, D.W.** 1981. Montpellier: a thousand year plant heritage. *American Horticulturist* 60(4):28-33.

- Lee, D.W.** 1980. Durians. *Horticulture* 58(7):47-51.
- Lee, D.W.** 1980. Padua. *American Horticulturist* 59(4):18-21.
- Lee, D.W.** 1980. Iridescent blue plants. *Horticulture* 58(8):36-40.
- Lee, D.W.** 1979. Begonia pavonina. *The Begonian* 46:210-213.
- Lee, D.W.** 1979. Life out on a limb. *Horticulture* 57(12):30-35.
- Lee, D.W.** 1977. Trips and tracks in Ulu Langat. *The Malayan Naturalist* No. 3(2):32-48.
- Lee, D.W.** 1976. The natural history of Pulau Tioman. *The Malayan Naturalist* 2(2):10-15.
- Lee, D.W.** 1975. The mystery of the blue plants. *The Straits Times Annual*, Singapore and Kuala Lumpur, pp. 87-88.
- Lee, D.W.** 1975. The economics of the durian. *Malaysian Business*, November, pp. 71-74.
- Lee, D.W.** and K. Paranjothy. 1974. New techniques in crop improvement. *Planter* (Kuala Lumpur) 50:295-306.
- Lee, D.W.** 1973. Environmental problems in Malaysia: an overview. *ITM Quarterly Journal* 5:24-30.

Meeting Talks and Abstracts

- Richards, J.H., T. Troxler-Gann, M.H. Dow and **D.W. Lee**. 2007. Morphology and growth of *Nymphoides aquatica* (Menyanthaceae) in response to water depth. 57th BSA Meetings, Chicago, IL, July.
- Pirone, C., **David Lee**, Martin Quirke and John Kress. 2007. Two unique aril pigments in the Strelitziaceae (order: Zingiberales). 57th BSA Meetings, Chicago, IL, July.
- Lee, D.W.**, B.M. Kumar, Kailash Paliwal and Chad E. Husby. 2007. Shade responses of seedlings of five tree species from Indian tropical seasonal forests. 57th BSA Meetings, Chicago, IL, July.
- Lee, D.W.**, T. Philippi, J.H. Richards and A.E. Edwards. 2006. Effects of Shading on Shoot Growth in *Eleocharis cellulosa* Torr. (Cyperaceae). 56th BSA Meetings, Chico, CA, July.
- Pirone, C., **David Lee**, Leung Kim and John Kress. 2006. Aril structure and pigments in the Strelitziaceae. 56th BSA Meetings, Chico, CA, July.
- Saenz, B and **D.W. Lee**. 2005. Effects of Leaf Anatomy on chloroplast movements in tropical plants. 55th BSA Meetings, Austin, TX, August.
- Lee, D.W.**, R. Veach and T. Phillipi. 2004 Forest history, disturbance and preservation in South Asia. Association for Tropical Biology and Conservation Meetings, Miami, FL, July. ATBC meetings, Miami, FL
- Lee, D.W.**, A.L. Edwards and J.H. Richards. 2003. Effects of water depth on growth and biomass allocation in *Eleocharis cellulosa* Torr. 53rd BSA Meetings, Mobile, AL, August.
- Lee, D.W.** 2002. Pigment dynamics during leaf senescence in a New England mixed deciduous forest. 52nd BSA Meetings, University of Wisconsin, Madison, WI, August.
- Lee, D.W.**, G.T. Taylor and A.K. Irvine. 2000. Structural fruit color in *Delarbrea michieana* (Araliaceae). *American Journal of Botany* 87:29. BSA 50th Annual Meetings, Portland OR, August.
- Lee, D.W.**, K. Gould and J. Wallace. 2001. Why leaves turn red: the function of anthocyanins in vegetative tissues. 1-day symposium at 51st BSA Meetings, Albuquerque, NM, August.
- Lee, D.W.** 2001. Anthocyanins: history, developmental and phylogenetic constraints. 51st BSA Meetings, Albuquerque, NM, August.

- Lee, D.W.**, S. F. Oberbauer, B. Krishnapilay and M. Mansor. 1999. Seedling shade responses and functional ecology of *Hopea helferei* and *H. odorata*. 6th Round Table of the Dipterocarps, Bangalore, India, 12 February
- Lee, D.W.** and S.F. Oberbauer. 1999. Irradiance and spectral quality influence leaf structure and function in seedlings of two *Hopea* species. 84th ESA Meetings, Spokane, WA, August.
- Lee, D.W.** 1998. Leaf colour in tropical plants: some progress and much mystery. The Stone Memorial Symposium, Malaysian Nature Society/University Malaya, Kuala Lumpur, Malaysia
- Lee, D.W.** 1998. Red pigment distribution in leaves of tropical plants. American Journal of Botany 85:13. BSA/AIBS 49th annual meetings, Baltimore, August.
- Lee, D.W.**, S.F. Oberbauer, D. Baskaran, M. Mansor, H. Mohamad and S.K.Yap. 1996. Light effects on seedling development in Jelutong (*Dyera costulata* (Miq.) Hk. f., Apocynaceae. American Journal of Botany 83(6):71. BSA/AIBS 47th annual meetings, Seattle, 5 August.
- Lee, D.W.**, K.S. Gould, D.N. Kuhn, and S.F. Oberbauer. 1995. Red undersurface coloration in two rainforest understory herbs. Association for Tropical Biology/AIBS 46th Annual Meetings, San Diego, 9 August.
- Lee, D.W.**, and K.S. Gould, 1995. Physical and ultrastructural basis of blue leaf iridescence in four Malaysian understory plants. Botanical Society of America/AIBS 46th Annual Meetings, San Diego, 9 August.
- Lee, D.W.**, Daniel Baskaran, Marzalina Mansor, Haris Mohamad and Son Kheong Yap. 1994. Responses of eight Malaysian rainforest tree seedlings to simulated forest shade. American Institute of Biological Sciences/Ecological Society of America annual meeting in Knoxville, Tennessee, 8/9.
- Mansor, Marzalina, **Lee, D.W.**, Daniel Baskaran, , Haris Mohamad, Son Kheong Yap and S.F.Oberbauer. 1994. Forest shade and seedling development in five dipterocarps. Fifth Roundtable of Dipterocarps meeting, sponsored by several International Organizations including FAO, Chang Mai, Thailand, 15 November.
- Lee, D.W.**, M. Mansor, S.K. Yap, and H. Mohamed. 1993. Response of two Malaysian dipterocarp seedlings to simulated forest shade. 30th Meeting of the Association for Tropical Biology, San Juan Puerto, Rico, June 1-4.
- Lee, D.W.**, M. Mansor and S.K. Yap. 1992. Light quality and the development of forest tree seedlings. American Journal of Botany 79(6):181.
- Lee, D.W.** 1990. Ultrastructural basis and ecological significance of blue fruit iridescence in *Elaeocarpus*. American Journal of Botany 77:181-182.
- Lee, D.W.** 1989. Leaf architecture and light interception, in symposium on Biophysical principles in plant development. American Journal of Botany 76:19.
- Lee, D.W. and R.M. Graham.** 1988. Ultrastructural basis for blue leaf iridescence in two neotropical ferns. American Journal of Botany 75:56-57.
- Lee, D.W.** 1988. Canopy dynamics and light climate in a tropical moist deciduous forest. Association for Tropical Biology (AIBS Meeting)
- Lee, D.W.** 1988. The sacred forest. Conference on Tropical Rainforests: Strategies for Wise Management, Florida International University, 28-31 January.
- Lee, D.W.** 1987. Understanding plants and shade. 17th National Tropical Foliage Short Course, Orlando.
- Lee, D.W.** 1987. The selective advantage of palisade parenchyma in bifacial leaves. American Journal of Botany 74:618-619.

- Lee, D.W.** 1986. Developmental responses of three tropical vines to simulated foliage shade. *American Journal of Botany* 73:632.
- Lee, D.W.** and J.H. Richards. 1985. Environmental controls on leaf morphology in *Eichhornia crassipes* Solms. *American Journal of Botany* 72:828.
- Lee, D.W.** 1982. Unexploited plants with promising nutritional value. The Nutrition Foundation, Food and Nutrition Liason Committee, Naples, Florida.
- Lee, D.W.** and R.A. Bone. 1982. Optical refraction by leaf epidermal cells of extreme shade plants: quantitative analysis and implications for photosynthesis. BSA-AIBS Meetings.
- Lee, D.W.** and S. Brammeier. 1982. On the selective advantage of leaf flush in mango and cacao. Society for Tropical Biology-AIBS.
- Lee, D.W.** 1976. Toxic substances in legume seeds and their relevance to crop improvement. Proceedings of the National Seed Symposium, Universiti Pertanian, Malaysia.
- Lee, D.W.** 1975. Isoenzyme analysis and tissue culture research. Proceedings of a National Tissue Culture Symposium, Rubber Research Institute of Malaysia, Kuala Lumpur.
- Lee, D.W.** 1972. Serological approaches to plant systematics. ASPT-AIBS Symposium, Biochemistry and the Taxonomist. 25th AIBS Meetings, St. Paul, MN.
- Lee, D.W.** 1972. Multi-media approaches to biological education: theatre and workshop. 25th AIBS Meetings, St. Paul, MN.
- Lee, D.W.** 1971. Isozyme variation between *Typha* populations. *American Journal of Botany* 58:465.
- Lee, D.W.** and D.E. Fairbrothers. 1970. Serological analysis of seed proteins from the Typhales and other monocots. *American Journal of Botany* 57:753.
- Lee, D.W.** and D.E. Fairbrothers. 1969. Comparisons of proteins in bryophytes. *Bulletin of the New Jersey Academy of Science* 14:64.
- Lee, D.W.** and D.E. Fairbrothers. 1969. Enzyme differences between closely related taxa. XI International Congress of Botany 1:124.
- Lee, D.W.** and D.E. Fairbrothers. 1969. Enzyme differences between adjacent populations of *Typha*. Society for the Study of Evolution-AAAS, Boston.
- Lee, D.W.** and D.E. Fairbrothers. 1968. Comparative protein investigations of the Typhaceae and other monocotyledons. *American Journal of Botany* 55:738.
- Lee, D.W.** and D.E. Fairbrothers. 1968. Comparative protein studies of bryophytes using serological and electrophoretic techniques. American Bryological Society-AIBS Meetings.
- Lee, D.W.** 1967. Serological and disc electrophoretic studies of North American *Typha*. *American Journal of Botany* 54:660.