

## CURRICULUM VITAE

MARK D. MERLIN  
Professor, Botany Department  
University of Hawai'i at Manoa  
Honolulu, Hawai'i  
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### PRESENT POSITIONS:

Professor, Botany Department, University of Hawai'i at Manoa, March 2004-present

Professor, Biology Program, University of Hawai'i at Manoa, 1994-2004  
(1974-1994: with the General Science Department, University of Hawai'i at Manoa).

Graduate Faculty, Ecology, Evolution and Conservation Biology, University of Hawai'i at Manoa, 2000-present

Graduate Faculty, Geography Department, University of Hawai'i at Manoa, 1984-present.

Research Associate, Botany Department, Bernice P. Bishop Museum, Honolulu, Hawai'i, 1988-2001.

Research Associate, Botanical Research Institute of Texas, Fort Worth, Texas, 1994-2003.

### EDUCATIONAL RECORD:

1979 Ph.D. in Geography, University of Hawai'i.

1972 Organization for Tropical Studies, summer graduate course: Human Impact on Tropical Ecosystems of Costa Rica.

1969 M.A. in Geography, University of Hawai'i.

1967 B.A. in History, University of California at Santa Barbara.

### ELECTED MEMBERSHIPS and AWARDS:

Fellow of the Linnean Society of London, (F.L.S.) 1987-present Awarded Kenan Fellowship for University Biology

Professors at National Tropical Botanical Garden, July 2003

Nominated for Teaching Award UHM, 2001-2002

Faculty Performance Award, College of Natural Sciences, 2000, \$1,500

Fellow of the Society of Ethnobotanists (F.E.B.) 2000

Janaki Ammal Medal as Ethnobotanist of the Year 1996 (awarded by Society of Ethnobotanists)

Sigma Xi, Scientific Research Society, Hawai'i Chapter, elected 1987.

Society for Hawaiian Archaeology, elected 1985.

Commission on Ethnobotany, International Union of Anthropological and Ethnological Sciences, 1984-1995

## RESEARCH PUBLICATIONS

### University Press Books

Lebot, V., Merlin, M., and M. Lindstrom. 1997. Kava: The Pacific Elixir. Inner Traditions, Rochester, VT., paperback edition of the original university press hardback edition listed below].

Lebot, V., Merlin, M., and M. Lindstrom. 1992. Kava: The Pacific Drug. Yale University Press, New Haven and London. 255 pp.

Merlin, M. 1984. On the Trail of the Ancient Opium Poppy: Natural and Early Cultural History of *Papaver somniferum*. Associated University Presses, East Brunswick, New Jersey, 324 pp.

### Refereed Chapters in Books

Merlin, M. and R. Gonzalez. 2 In Press. Environmental Impacts of Nuclear Testing in Remote Oceania: 1946 – 1996. In: McNeill, J and C. Unger (eds.) The Environmental Impact and the Cold War. Selected papers from those presented at the conference on the same subject at the German Historical Institute, Washington D.C., March 2007. Cambridge, England: Cambridge University Press.

Merlin, M. and W. Raynor. 2004. Modern Use and Environmental Impact of the Kava Plant in Remote Oceania. In: M. Steinberg, J.Hobbs and K. Mathewson (eds.), Dangerous Harvest: Drug Plants and the Transformation of Indigenous Landscapes New York: Oxford University Press, Chapter 12, pages 274-293.

Merlin, M. and J. Juvik. 1995. Montane Cloud Forest in the Tropical Pacific: Some Aspects of their Floristics, Biogeography, Ecology, and Conservation. In: Tropical Montane Cloud Forests. Hamilton, L., Juvik, J. and F. Scatena (eds). Springer-Verlag, New York, pp. 234-253 [Published previously as chapter In: Tropical Montane Cloud Forests. Hamilton, L., Juvik, J. and F. Scatena (eds). 1993. East-West Center, Program on Environment, with collaboration of UNESCO and U.S. Forest Service. pp. 149-162.]

Merlin, M. and J. Juvik. 1992. Relationships between Native and Alien Plants on Pacific Islands with and without Significant Human Disturbance and Feral Ungulates. In Alien Plant Invasions in Native Ecosystems of Hawai'i: Management and Research, C.P. Stone, C.W. Smith, and J.T. Tunison eds. University of Hawai'i Cooperative National Park Resources Studies Unit Press. pp. 597-625.

### Refereed Articles

Gallaher, T. and M. Merlin. Submitted 2009. Biology and Impacts of Pacific Island Invasive Species: *Prosopis pallida* and *Prosopis juliflora*, *Algarroba*, *Huarango*, *Mesquite*, *Kiawe* (Fabaceae). Pacific Science. Revisions requested July 2009.

Merlin, M. and G. Kinsela. 2005. Traditional use of turmeric (*Curcuma longa* L.) as medicine in Southern Asia and the Tropical Pacific. Ethnobotany. 17 (1&2):49-64.

Merlin, M. and W. Raynor. 2005. Kava Cultivation and Integrated Watershed Resource Management on Pohnpei Island. Pacific Science. 59 (2): 241-260.

Merlin, M. 2003. Archaeological Record for Ancient Old World Use of Psychoactive Plants. Economic Botany, 57(3): 295-323.

Merlin, M. 2000. A History of Ethnobotany in Remote Oceania. Pacific Science. 54 (3): 275-287.

Gartz, J., Allen, J. and M. Merlin. 1994. Ethnomycology, Biochemistry, and Cultivation of *Psilocybe samuiensis* Guzman, Bandala and Allen, A New Psychoactive Fungi from Koh Samui, Thailand. Journal of Ethnopharmacology, 43:73-80.

Merlin, M. and J. Allen. 1993. Species Identification and Chemical Analysis of Psychoactive Fungi in the Hawaiian Islands. Journal of Ethnopharmacology, 40:21-40.

Kennedy, J. and M. Merlin. 1993. Aboriginal Sweet Potato Farming in Hawaiian Dry Forest. Hawaiian Archaeology,

Journal of the Society of Hawaiian Archaeology, 2:72-82.

Franklin, J. and M. Merlin. 1992. Species-environment patterns of forest vegetation on the uplifted reef limestone of Atiu, Mangaia, Ma'uke, and Miti'aro, Cook Islands. Journal of Vegetation Science, 3:3-14.

Merlin, M. 1991. Woody vegetation on the raised coral limestone of Mangaia, southern Cook Islands. Pacific Science. 45(2):131-51.

Merlin, M. 1989. The Traditional Geographical Range and Ethnobotanical Diversity of *Cordyline fruticosa* (L.) Chevalier. Ethnobotany (India) 1:25-39.

Merlin, M. 1985. Woody Vegetation in the Upland Region of Rarotonga, Cook Islands. Pacific Science, 39(1): 81-99.

Merlin, M. and J. Juvik. 1985. Bird Protection in Western Samoa. Oryx. Journal of the Fauna and Flora Preservation Society, London. 19(4): 97-103.

#### **Additional Articles, Educational Texts, Educational Websites, Encyclopedia Contributions, Booklets, and Reports**

Merlin, M. Submitted 2009. In Press. Seagrasses. In: Hopley, D. (ed.) Encyclopedia of Modern Coral Reefs Springer-Verlag, Germany.

Juvik, Jim, Delay, John, Merlin, Mark, Castillo, Perry, Lyman and Kealohanuiopuna Kinney. 2008. Endangered Plants and Threatened Ecosystems on the island of Hawai'i. Petroglyph Press, Hilo, Hawai'i. 64 pp. Federally funded resource book following field guide published in 2005: "Rare and Uncommon Plants on Hawai'i Island." United States Fish and Wildlife Service, Department of Land and Natural Resources, and Lyon Arboretum, University of Hawai'i.

Merlin, M, Thomson, L. and C. R. Elevitch. 2006. *Santalum ellipticum*, *S. Freycinetianum*, *S. haleakalae*, and *S. paniculatum* (Hawaiian sandalwood). In Elevitch, C.R. (ed.). The Traditional Trees of Pacific Islands: Their Culture, Environment, and Use. Permanent Agriculture Resources, Holualoa, Hawai'i, pp. 695-715.

Merlin, M. 2005. Hawaiian Forest Plants (6<sup>th</sup> edition). Pacific Guide Books, Honolulu, Hawai'i. 80 pp., 156 color photographs. [1<sup>st</sup>-3<sup>rd</sup> editions published by Oriental Publishing Company, Honolulu, Hawai'i, 3rd edition, 1980, 68 pp., 130 color photographs]. Introductory guide to the native and naturalized flora of the Hawaiian forests; 1st printing 1976.

Merlin, M. 2005. Plants and Environments of the Marshall Islands. Website produced in cooperation with the Center for Pacific Islands Study, University of Hawai'i at Mānoa. This web site presents information about the plants of the Marshall Islands and their many uses by the Marshallese people. The information was originally produced as an environmental education book for students, teachers and resource managers in the Marshall Islands (see Merlin, M., Capelle, A., Keene, T., Juvik, J., and J. Maragos. 1997 below) . <http://www.hawaii.edu/cpis/MI/index.htm>

Merlin, M. 2005. Pacific Ocean Islands, Coastal Ecology. In Schwartz, M. (ed.). Encyclopedia of Coastal Science. Encyclopedia of the Earth Sciences Series. Springer, Dordrecht, The Netherlands, pp. 746-754. (~7000 words)

Delay, J., Merlin, M., Juvik, J., Castillo, M., Perry, L. 2005. Field Guide to Rare and Unusual Plants on the Island of Hawai'i. Lyon Arboretum Special Publication, In cooperation with the United States Fish & Wildlife and the Hawai'i Department of Land and Natural Resources. Hilo. Hawai'i.

Merlin, M, Thomson, L. and C. R. Elevitch. 2005. *Santalum ellipticum*, *S. Freycinetianum*, *S. haleakalae*, and *S. paniculatum* (Hawaiian sandalwood). In Elevitch, C. (ed.). The Traditional Tree Initiative: Ecological, Economic, and Cultural Renewal Phase: One Species Profiles for Pacific Island Agroforestry. Permanent Agriculture Resources, Holualoa, Hawai'i. <http://www.agroforestry.net/tti/Santalum> (Haw-sandalwood).pdf, 19 pages.

Merlin, M. 2002. Traditional Uses of Plants for Fishing in Micronesia. Secretariat for Pacific Community: Women in Fisheries. Information Bulletin. Noumea, New Caledonia. Volume 11, November, pp. 27-31. [also in the French version of SPC Women in Fisheries].

Merlin, M., W. A. Whistler and J. O. Juvik. 2001. Botanical Survey of the U.S. Army Tropic Regions Test Center, Man Pack Portability Course, East Range, Schofield Barracks, O'ahu, Hawai'i. Prepared for the Department of Geography & Environmental Engineering, U.S. Military Academy, West Point and Tropic Regions Test Center, Yuma Proving Grounds, U.S. Army. 19 pp. + appendices & maps.

- Merlin, M. 1999. Hawaiian Coastal Plants (4<sup>th</sup> expanded and revised edition). Pacific Guide Books, Honolulu, Hawai'i. 72 pp., 140 color photographs. [1<sup>st</sup>-3<sup>rd</sup> editions published by Oriental Publishing Company, Honolulu, Hawai'i, 3rd edition, 1986, 68 pp., 130 color photographs]. Introductory guide to the native and naturalized flora of the Hawaiian coastal zone; 1st printing 1977.
- Merlin, M. 1998. The Sandalwood Trade. In: Juvik, S. and J. Juvik. (eds.) Atlas of Hawai'i. University of Hawai'i Press, Honolulu, Hawai'i, p.170.
- Merlin, M. 1997. "Hawaii." Encarta 97 encyclopedia article, area of interest: Geography, category: United States, Territories and Regions. Microsoft CD-ROM.
- Merlin, M., Capelle, A., Keene, T., Juvik, J., and J. Maragos. 1997 (2<sup>nd</sup> ed.) Keinikkan Im Melan Aelon Kein: Plants and Environments of The Marshall Islands. Program on Environment, East-West Center, Honolulu, Hawai'i, 110 pp. (1<sup>st</sup> ed. 1994)
- Merlin, M., Kugfias, A., Keene, T. and J. Juvik. 1996. Gidii Nge Nu Wa`ab: Plants, People and Ecology in Yap State. Program on Environment, East-West Center, Honolulu, Hawai'i, 121 pp.
- Merlin, M. and J. Juvik. 1996. Irá me Neeniier nón Chuuk: Plants and their Environments in Chuuk. Program on Environment, East-West Center, Honolulu, Hawai'i, 121 pp.
- Merlin, M., Juvik, J. and L. Hamilton. 1994. Environmental Education in Hawai'i and Micronesia. In Trends in Environmental Education Worldwide. Filho, W. and M. Hale (eds). UNEP/UNESCO International Environmental Education Programme. London, England. pp. 95-99.
- Brennan P. and M. Merlin. 1993. Biogeography and Traditional Use of Santalum in the Pacific Region. Sandalwood in the Pacific Region. Australian Centre for International Agricultural Research (ACIAR), No.49:30-38.
- Merlin, M., Taulung, R. and J. Juvik. 1993. Sahk Kap Ac Kain In Aen Kosrae: Plants and Environments of Kosrae. Program on Environment, East-West Center, Hono., Hawai'i, 113 pp.
- Merlin, M., Jano, D., Raynor, W., Keene, T., Juvik, J. and B. Sebastian. 1992. Tuhke en Pohnpei: Plants of Pohnpei. Environment and Policy Institute, East-West Center, Honolulu, Hawai'i, 94 pp.
- Merlin, M and D. Ravenswaay. 1991. Human Impact on the Genus *Santalum* in Hawai'i Proceedings of the Symposium on Sandalwood in the Pacific, April 9-11, 1990, Honolulu, Hawai'i. USDA Forest Service, General Technical Report, PSW-122, pp. 46-60.
- Merlin, M. and T. Keene. 1990. Dellomel er a Belau: Plants of Belau. Environment and Policy Institute, East-West Center, Honolulu, Hawai'i, 50 pp. (+10 full pages of color photographs).
- Merlin, M. 1988. Environmental Education in the Hawaiian Islands. Environmental Education Curriculum Workshop Report, South Pacific Regional Environment Programme (SPREP), Suva, Fiji July 7-14, pp. 80-81.
- Merlin, M. 1982 The Origins and Dispersal of True Taro, *Colocasia Esculenta* L. Native Planters. 1(1):6-17. Honolulu, Hawai'i.

## **Book Reviews**

2002. The Green Republic: A Conservation History of Costa Rica by Sterling Evans. Austin: University of Texas Press. In Economic Botany 56 (1): 100.
1997. A Man Who Can Speak of Plants: Dr. Thomas Coulter (1793-1843) by D. Charles Nelson and Alan Probert. In Pacific Circle Newsletter, February, p.15
1994. Sir Joseph Banks and the Transfer of Plants to and from the South Pacific 1786-1798 by Alan Frost. (Melbourne: The Colony Press, 1993). In Pacific Circle Newsletter, Sept., pp. 13-14.

1994. Nomads of the Wind. by Peter Crawford. (London: BBC Books, 1993). In BBC Magazine, 12(8):67.
1993. Vegetation of New Zealand by Peter Wardle. Cambridge University Press, 1991. In Quarterly Review of Biology, 68(4):591.
1993. The Fragile South Pacific: An Ecological Odyssey by Andrew Mitchell. University of Texas Press, 1990. In Contemporary Pacific, Spring: 194-196.
1992. Islands, Plants, and Polynesians: An Introduction to Polynesian Ethnobotany Paul A. Cox and Sandra A. Banack, eds. Dioscorides Press, In Quarterly Review of Biology, 67(4):559-560.
1990. Islands in a Far Sea: Nature and Man in Hawai'i by John L. Culliney. Sierra Club Books, 1988. In Pacific Studies, 14(1):167-169.

### **Published Abstracts of Papers Presented at Professional Meetings**

2009. "The transported landscape of immigrant rice cultivators: South Carolina and Hawai'i compared." 50<sup>th</sup> annual Meeting of the Society for Economic Botany, College of Charleston, Charleston, South Carolina, May 30-June 5.
2009. "*Sla Mlu*: practical and symbolic use of the betel nut palm, *Areca catechu* and the betel vine, *Piper betle* in Cambodia." 50<sup>th</sup> annual Meeting of the Society for Economic Botany, College of Charleston, Charleston, South Carolina, May 30-June 5. Co-author, Lukas Wettstein.
2008. "Human use of *Prosopis* in Hawai'i: ethnobotanical history and ecological implications of a useful, alien phenotypic species." 49<sup>th</sup> annual Meeting of the Society for Economic Botany, Duke University, Durham, North Carolina, June 1-5.
2007. "Problematic Pollen and Solid Seed Evidence: Archaeobotanical Case Study of *Cannabis* and *Humulus*." 48<sup>th</sup> annual Meeting of the Society for Economic Botany, Chicago, Illinois, June 4-7 (co-author, Robert C. Clarke).
2007. "Environmental Impacts of Nuclear Testing in Remote Oceania: 1946 – 1996." Conference on Environmental History and the Cold War at the German Historical Institute, Washington D.C., March 22 – March 25 (co-author, Ricardo Gonzalez).
2006. "Archaeological evidence for the tradition of psychoactive plant use in the New World." 47<sup>th</sup> Annual Meeting of the Society for Economic Botany, Chiang Mai, Thailand, June 4-9.
2006. "Ritual use of non-psychoactive *Cannabis* in eastern Asia." 47<sup>th</sup> Annual Meeting of the Society for Economic Botany, Chiang Mai, Thailand, June 4-9. (co-author and presenter, Robert C. Clarke).
2004. "Impact of Nuclear Testing in Remote Oceania: 1946-1996." Annual Meetings of the American Society for Environmental History and the National Public History association. 31 March-4 April. Victoria, British Columbia, Canada.
2003. "Cultivation and Biodiversity Impact of the Kava Plant, *Piper methysticum* Forst. f., on Pohnpei Island, Federated States of Micronesia." (co-author, William Raynor). Pacific Science Congress, 17-21 March. Bangkok, Thailand.
2002. "The Adventive Rainforest: alien species domination and transformation of lowland tropical ecosystems on O'ahu, Hawai'i. Association for Tropical Biology Conference, Tropical Forests: Past, Present, and Future. Panama City, Panama, July 29-August 2.
2002. "Archaeological evidence for the worldwide tradition of psychoactive drug plant use." 43<sup>rd</sup> Annual Meeting of the Society for Economic Botany, New York Botanical Garden, June 22-27.
2001. "Contemporary use and environmental impact of the kava plant, *Piper methysticum* Forst. F., in Pohnpei, Federated States of Micronesia." Building Bridges with Traditional Knowledge Summit Meetings. Honolulu, Hawaii, 28 May- 2 June [also organizer of the Session 8, Plants of the Gods: Past, Present and Future, 30 May].
2001. "Substrate Control of Plant Colonization on Recent Mauna Loa Basaltic Lavas at High Elevation (3000 m),

Congruent with the 10°C Mean July Isotherm” Kamchatka Field Symposium “Plants and Volcanoes,” Petropavlovsk-Kamchatka, Russia, 9-15 July (co-author J. O. Juvik) <http://www.farrex.org/Layer2/symposium/abstracts>.

1999. “Terrestrial Biomes of the Cook Islands and The Pacific-Asia Biodiversity Transect” Abstracts. XIX Pacific Science Congress in Sydney, Australia, 4-9 July 1999.

1999. “The Ethnobotany of the Remote Tropical Pacific. Abstracts. XIX Pacific Science Congress in Sydney, Australia, 4-9 July 1999.

1997. “Montane Cloud Forest on Pohnpei and Kosrae Islands, Federated States of Micronesia: Biodiversity, Research and Conservation in Rare, Isolated Ecosystems.” Abstracts. VIII Pacific Science Inter-Congress, Suva, Fiji. July 13-19.

1997. “Anthropogenic grassland formations on the Tropical Pacific Islands.” Abstracts. Annual meetings of the Society for Conservation Biology, Vancouver, Canada, June.

1996. “Turmeric (*Curcuma longa* L.): Traditional exchange and use in the Caroline Islands, Micronesia.” Abstracts. Joint meetings of the Society of Economic Botany and International Society of Ethnopharmacology, London, England, July 1-6.

1994. “Traditional Resource Use, Science Education and Conservation of Native Species in Micronesia.” Abstracts. 6th International Congress of Ecology. Manchester, U.K., August. 21-26.

1991. “Prehistoric and historic trade of *Santalum* in the tropical Pacific.” Abstracts. XVII Pacific Science Congress. Honolulu, Hawai`i, May 21-28.

1990. “The Traditional Polynesian Fire Goddess and Potential Preservation of Tropical Rainforest in Hawai`i.” Abstracts. 5th International Congress of Ecology. Yokohama, Japan, August 23-30.

1989. “Teacher Training and Traditional Knowledge: Environmental Education in Hawai`i and Palau.” Abstracts. 6th Annual Pacific Educational Conference. Koror, Republic of Belau, August 7-9.

1988. “Psychoactive Resources of the Ancient Eurasian Shaman: An Ecological Perspective.” Abstracts. XII International Congress of Anthropological and Ethnological Sciences, Zagreb, Yugoslavia, July 24-31.

1987. “Interaction between native and alien plants in the isolated vegetation of the Southern Cook Islands.” Abstracts. XIV International Botanical Congress, Berlin, West Germany, July 24-Aug.1.

1987. “Woody vegetation on the raised coral limestone of the Southern Cook Islands.” Abstracts. Annual meetings of the Association of American Geographers, Portland, Oregon, April 22-26.

1985. “Increasing travel in the tropical Pacific and the spreading use of hallucinogenic mushrooms among young adults.” Abstracts. Pacific Science Association 5th Inter-Congress, Manila, Philippines, February.

1981. “Flora and vegetation on recent Samoan lava flows.” Abstracts. XIII International Botanical Congress, Sydney, Australia, 21-28 August.

1981. “Contemporary use of hallucinogenic fungi in the Hawaiian Islands.” Abstracts. XIII International Botanical Congress, Sydney, Australia, 21-28 August.

1980. “The environmental and social impact of the Hawaiian sandalwood trade.” Yearbook of the Association of Pacific Coast Geographers. Vol. 42.

1979. “Human perception of the Hawaiian endangered species: a three-year random survey of citizen attitudes.” Abstracts. Annual Meeting, Association of American Geographers. Philadelphia, 22-25 April.

1977. “Distribution of opium poppy use in the Late Bronze Age.” Abstracts. Annual Meeting, Association of American Geographers. Salt Lake City, Utah, 24-27 April.

## TEACHING

## Graduate Committee Membership

I have served on numerous University of Hawai'i Master of Arts and Doctoral Degree committees for graduate students in the Geography and some other departments from 1984 to the present.

I am currently serving on:

3 Masters Degree Committees for student in the Botany Department:

Wade Holmes – ethnobotany  
Timothy Gallaher – ethnobotany  
Joseph Brider – invasive species

5 Doctoral Committees for student in the Botany Department:

Summer Austin – ethnobotany in Jamaica  
Kawika Winter – ethnobotany in Hawai'i  
Tamia Suoto – ethnoecology in Venezuela  
Lori Tongco – ethnobotany & conservation in the Philippines  
Shimona Quazi – conservation management in Bangladesh

1 Masters Degrees Committees for students in the EECB & Geography Department

Shari Lyons -- conservation biogeography in Hawai'i

1 Masters Degrees Committees for student in Geography

Lance La Pierre – conservation biogeography and ethnobotany in Hawai'i

1 Doctoral Committee for students in the Geography Department:

John Delay – tree sap flow, climatology

During the past several years, these are the graduate students on whose committees I served have graduated:

Rebekah Fuller – Ph.D. Botany – ethnomycology in the Cook Islands (2009)  
Bruce Hoffman – Ph.D. Botany - ethnobotany in Surinam (2009)  
Jeff Boutain – M.S. Botany – paleobotany in Rapa Nui (2009)  
Laura Weiss – M.S. Botany – ethnoecology in Namibia, southern Africa (2008)  
Yoko Kojima – Ph.D. Anthropology - archaeology of food plant preparation in Vanuatu (2008)  
Bambang Hariyadi – Ph.D. Botany – ethnoecology in Sumatra  
JD Baker – Ph.D. Anthropology - modern Kava use in the Hawaiian Islands  
Ricardo Gonzalez – Ph.D. Geography - coastal resource management in Peru (2007)  
Noel Ludwig – Ph.D. Geography - fire regimes in Southern California vegetation (2007)  
Uala Lenta – M.S. Botany, ethnobotany in Hawai'i.  
David Addison – Ph. D. Anthropology - archaeology of traditional agriculture in the Marquesas (2006)  
Ku'ulei Rodgers, Ph.D. Geography - coral reef impact assessment (2005)  
Carrie Harrington, M.S. Botany – medicinal ethnobotany (2005)  
Liloa Dunn, M.S. Botany – medicinal plant use in the Marquesas Islands (2005)  
Veronica Hutton, M.A., Geography – environmental pollution (2005)  
John Delay, M.A., Geography - tropical montane cloud forests (2005)  
Clark Monson, Ph.D., Geography - biogeography, Pacific Islands (Completed 2004)  
Tom Galioto, M.A., Geography - ethnobotany in Hawai'i (Completed 2004)  
John Cusick, Ph.D., Geography – World Heritage Sites in Japan and Hawai'i (Completed 2003)  
Mark Nickum, M.S. Botany, ethnobotany of Tongan sailing canoe (Completed 2002)  
Michael Wysong, M.S. Botany, ethnobotany, use of coastal plants in Samoa (Completed 2002)  
Heather Harlow, M.S. – Botany, ethnobotany of Tibetan medicine (Completed 2002)  
Chris Cottrell, M.A. History – sandalwood exploitation in the Hawaiian Islands (Completed 2002)  
Peter Brennan, Ph.D., Geography -- biogeography and ecology of an Australian dry forest.

Nanette L. Kapulani Judd, Ph.D., Geography -- contemporary Hawaiian herbal medicine.  
John Cusick, M.A., Geography -- historical geography of Kipahulu valley, Maui  
Christopher Evans, M.A., Geography – coral reef recovery in Kane`ohe Bay, O`ahu.  
Randall Kennedy, M.A. Geography – attitudes and administrative policy concerning feral pig control.  
Ben Wesner, M.A., Geography – marijuana landscapes: a critical legal geography of *pakalolo* in Hawai`i.

### **External Examiner for M.S. Thesis in Geography at The University of the South Pacific**

Leilani Duffy, M.S. in Geography, Valuing the Social and Economic Uses of Non-timber Forest Products Derived from Plant Resources: a Case Study of Uafato Village, Upolu Island, Samoa (Completed 2003)

### **Course Instruction**

#### **General Science Dept., University of Hawai`i 1974-95, Biology Program, University of Hawai`i 1995-to present**

Biology and Society (BIOL 101 UHM): 1998

Introduction to Science: Hawaiian Environments (SCI/BIOL 123 UHM): 1974-present; (BIOL 123 UHM): 1996-2008.

Introduction to Science: Hawaiian Environment Lab (SCI 123L UHM): 1974-1991, 1994.

Technology, Ecology and Man Lab (SCI 124L UHM): 1974-1980.

Human Role in Environmental Change (SCI/GEOG 410 UHM): 1986-1995; (BIOL/GEOG 410 UHM): 1996-2008.  
(BIOL/GEOG 410 for UHM Study Abroad Program in London, England, Spring 1991; Rarotonga, the Cook Islands, Summer 1994; in Mendoza, Argentina, Summer 2005).

Environmental Issues (SCI 310, for UHM Study Abroad Program, London, England: Spring 1991), (BIOL 310 UHM): 1996, 1999-2004, 2006, 2008 (BIOL 310 for UHM Study Abroad Program, French Polynesia: Summer 2006).

The Atoll (BIOL 320 UHM): 1997, 1999, 2003

Tropical Island Ecosystems (BIOL 360 UHM): 1997, 2001, 2003)

#### **Botany Department, University of Hawai`i**

Botany 699V Directed Readings (4 credits), Catherine Davenport, Spring 2007.

Botany 699V Directed Readings (3 credits), Jeffrey Boutain, Fall 2007

Botany 699V Botanical Problems (3 credits), Timothy Gallaher, Spring 2008.

Botanical Seminar (Bot 610), Fall 2006 1 unit

Advanced Botanical Problems (Bot 612), Spring 2006 3 units

Botany 399V Botanical Problems (3 credits) Lukas Wettstein, Fall 2005.

Botany 399V Botanical Problems (3 credits), Zach Eisenberg, Summer 2006

Botany 399V Botanical Problems (3 credits), Timothy Gallaher, Spring 2006.

Botany 399V Botanical Problems (3 credits), Zach Eisenberg, Spring 2008

Advanced Ethnobotany (Bot 440), team taught, 4 lectures, Summer 2001, (Bot 612) team taught, 2 seminars Spring 2005

#### **Geography Department, University of Hawai`i**

Human Role in Environmental Change (GEOG/SCI 410: 1987-1995 & GEOG/BIOL 410: 1996-2008).

Seminar in Geography of the Pacific (GEOG 665, Summer Study Abroad in French Polynesia, 2006)

Directed Readings (GEOG 699: 1988, 1990, 1991, 1998 [3 units], 1999v [1 unit], 2002 [3 units], 2003 [9 units]), 2004 [6

units])

Directed Readings (GEOG 399: 1998 [3 units], 2001-WI [3 units], 2003 [3 units]).  
Geography of Hawai'i (GEOG 368: 1974, Spring 1989, Fall 1989).

Geography of the United Kingdom (GEOG 497, for Study Abroad Program, London, England, 1987).

Environment, Resources and Society (GEOG 326, for Study Abroad Program, London, England, 1987).

Graduate Teaching Assistant, Physical Geography (Geog 101) 2-1/2 years (September 1967- August 1969, January 1972-June 1972).

**Science Department, College of Micronesia, Majuro, RMI:**

Introduction to Science (Sci 121: July-August 1984).

Environmental Education (Sci 115: July-August 1984).

**Liberal Studies Program, University of Hawai'i:**

Independent Studies (IS 300) Spring and Fall 1983, Major Advisor, for Kristin Thomas (undergrad.), 1995 at UH Manoa.

British Life and Culture (IS 369) for Study Abroad Program, London, England, Fall 1987 and Spring 1991.

**College of Continuing Education (Outreach), University of Hawai'i:**

Environmental Issues (Biol 310), UHM Summer Study Abroad Program, French Polynesia, July 8-August 6, 2005 [also served as Resident Director of this Summer Study Abroad Program in French Polynesia, 2006]

Human Role in Environmental Change (Geog/Sci 410), UHM Summer Study Abroad Program, Mendoza, Argentina, May 24-July 2, 2005 [also served as Resident Director of this Summer Study Abroad Program in Mendoza, 2005]

Island Ecosystems (Biol 360) and \*Environmental Issues (Biol 310), both for the Territorial Teacher Training Assistance Project, Tutuila, American Samoa, 5/30-6/30, 1995.

Hawaiian Natural History in the Elementary School Curriculum - for Hawai'i teachers (EDCI-481R), Kauai Island, August 1994.

Hawaiian Natural History in the Elementary School Curriculum - for Hawai'i teachers (EDCI-481S), Hawai'i Island, August 1994.

Human Role in Environmental Change (Geog/Sci 410), UHM Study Abroad Program, Rarotonga, Cook Islands, May-June 1994 [this was the first Study Abroad Program offered for the Cook Islands]

Direct Readings in Geography (Geog 399), UHM Study Abroad Program, Rarotonga, Cook Islands, May-June 1994.

Hawaiian Natural History in the Science Curriculum - Advanced Field Course for Hawai'i science teachers (EDCI-582), Maui Island, August 1991.

Hawaiian Natural History in the Science Curriculum - Field Course for Hawai'i science teachers (EDCI-583), Hawai'i Island, June 1988, 1989, 1990.

Introduction to Biology (SCI 121) at Majuro, Marshall Islands, July-August 1984.

World Regional Geography (GEOG 102) at Pearl Harbor Naval Base, March-April 1974.

Geography of Hawai'i (GEOG 368) at University of Hawai'i, January-March 1974, 1981, 1990.

Physical Geography (GEOG 101) at University of Hawai'i, December- February 1973.

Conservation of Natural Resources (GEOG 326) Hickam Air Force Base, Sept-Nov. 1972.

**Summer Session, University of Hawai'i:**

Biology Workshop for Science Teachers, Biol 501F, section 450, July 5, 2002

Geography of Hawai'i (GEOG 368), June-July 1973, June-July 1979.

Physical Geography (GEOG 101), June-July 1983.

Introduction to Science: Hawaiian Environment (SCI 123), June-July, 1982, 1983.

**Education Department, Chaminade University:**

Hawai'i: An Outdoor Understanding (ED 558), July 1-7, 1982.

**Social Sciences Department, Leeward Community College:**

World Regional Geography (GEOG 102 - 4 sections) Fall 1969.

Economic Geography (GEOG 151) Fall 1969.

World Regional Geography (GEOG 102) Summer Session 1971, 1973.

**Hawai'i Upward Bound Program, University of Hawai'i**

Science lecturer and field guide Federally-funded program for underprivileged high school students who need remedial work to gain admission to institutions of higher learning, 1974-75, 1976-77, 1978-79, 1980-81, 1982-83, 1985-86, 1990-1991 (Subject: Science Methodology and Hawaiian Natural History).

**Department of Education, State of Hawai'i**

Enrichment in Science Program: Symposiums for all 7 school districts, "Natural History of Tropical Pacific Islands: Scientific Research and Career Opportunities," 1983-1984 and 1984-1985.

Lectures and field trips: to Waikamoi, Maui, for K-12 DOE teachers on Maui (Subject: Ethnobotany in Hawai'i), January 1989; to S.E. Oahu, for K-12 DOE teachers on Oahu (Subject: Coastal Plants of Hawai'i), March 1989.

**Extension Education Division, Kamehameha Schools**

Continuing Education Program, Hawaiian Culture Lecture Series at the Oahu County Correctional Center (Subject: Hawaiian Natural History), November-December 1986.

**Referee -- Reviews for Academic Journals:**

Journal of Experimental Botany 2008  
Ethnobotany Research & Applications 2008  
Contemporary Pacific 2007  
Journal of History Geography 2007  
Micronesica 2007  
People and Culture in Oceania 2006  
Ethnobotany Research & Applications 2006, 2007, 2009  
American Journal of Botany 2006  
Contemporary Pacific 2002  
Pharmaceutical Biology 2001.  
Pacific Science 1993.  
Elepaio 1988.  
Asian Studies 1987.

Economic Botany 1986.

## **Referee -- Review for Academic Books**

### **Book Reviews**

Yale University Press: "Poor Man's Time Machine: Paleobotany of a Kaua'i Sinkhole," by David Burney, 2007.

University of Hawaii Press: "Islands in a Far Sea" John Culiney. Revised Edition, 2004.

Referee -- Review for Scientific Research Proposal to the Marsden Fund of New Zealand, 2006

External Reviewer, Ph.D. Thesis, Biosciences, Mangalore University, India, 1993.

Board of Directors, Hawaiian Botanical Society, 1990.

President, Hawaiian Botanical Society, 1989.

Founding Member, Steering Committee, Hawai'i Environmental Education Association, 1989.

Governor's Advisory Committee on Pesticides, Department of Agriculture, State of Hawai'i, appointed by State Governor April 10, 1981, reappointed May 26, 1983 to June 30, 1987 (numerous meetings to conduct committee business).

Scientific Advisor, Ohia Project, Bishop Museum/State of Hawai'i, Department of Education curriculum project to upgrade K-8 understanding of Hawaiian Natural History and Tropical Ecology, funded by John D. and Catherine T. MacArthur (grant of \$762,000), 1988-1991.

### Media Contributions

Invited scientist and naturalist presenter for a video segment on "*Medicines from Plants*" for Pearson Textbook Company which has a high percentage in the high school biology textbook market. Video interview shot on location at UH Lyons Arboretum on May 20, 2008. Produced by Untamed Nature see [www.thewildclassroom.com](http://www.thewildclassroom.com)

Video content focus: 1. Why are plants such a valuable source of new medicines? 2. Why can't we just find these medicines ourselves? 3. Why is it important to preserve native knowledge of plants? 4. Why is it important to preserve plant diversity from an economic point of view? 5. Why is an understanding of chemistry and biology important when studying these plants?

Invited scientist and naturalist presenter in two videos for Hawaiian Airlines inflight videos, 2007, "Hawaiian Skies," produced by Scott Sorensen of Coco Palm Pictures, Honolulu: Two 10-15 minute educational video segments, No. 1: Hawaiian Coastal Plants and their Uses in southeast O'ahu 2007, No. 2: "Kokee Botanicals" Hawaiian Forest Plants and their uses in the mountains of Kaua'i. Shown repeatedly on all flights of Hawaiian Airlines to the Mainland U.S., South Pacific and Australia; about 200,000 travelers will see the video during its initial run in and out of the Hawaiian Islands. No. 1: Hawaiian Skies to Hawaii, Apr-May 2007 and October-November 2007; No. 2, finished December 2007.

Guest appearance on Islands in the Pacific: "Island Life" and "Island Resources" Hawaii Public Television shows broadcast live locally and to more than 20 mainland States via satellite, and viewed by hundreds of thousands of students in classroom with interactive media, January 18, and February 1, 2001, rebroadcast a number of times through 2003.

Guest appearance on Let's Go Fishing television program to discuss plant use in traditional Hawaiian fishing. On location in North Kona, Hawai'i, March 4, 1994.

National Public Television interview on "Kava -- traditional and modern medicinal value" on Asia Now program, co-produced by KHET, Hawai'i, NHK/Japan, and KCTS/Seattle, February 1993,

Educational television production: During April-June 1981, I wrote, narrated, and helped edit "Hawai'i and Planet Earth: The Hawaiian Geography" and "Hawaiian Geology;" both aired on public television intermittently from 1981 to present, as part of 12 video programs in the State of Hawai'i, Department of Education, Science in Hawai'i series.