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## Resume

### (a) Professional Preparation

|                             |                     |                       |
|-----------------------------|---------------------|-----------------------|
| Washington State University | Psychology          | B.S. 1969             |
| Washington State University | Entomology          | M.S. 1972             |
| University of Madrid, Spain | Entomology          | Scholarship year 1973 |
| University of Washington    | Developmental Biol. | Special student 1974  |
| Harvard University          | Biology             | Ph.D. 1981            |

### (b) Appointments

1981-2012 Entomologist, Harvard University, Administrative Officer at Environmental Health, Safety and Emergency Management. Responsible for university-wide pest control operations and environmental compliance with federal and state regulatory agencies. (Retired).

1990 -2012 Adjunct faculty- University of Massachusetts (Amherst and Boston)

2012-2017 Associate of the Museum of Comparative Zoology, Harvard University.

2014 -2018 Research Associate, Museum of Northern Arizona, Flagstaff, AZ.; Director of the Center for Bio-Cultural Diversity.

### (c) Publications

- Akre, R.D. and G.D. Alpert and T. Alpert 1973. Life cycle and behavior of *Microdon cothurnatus* in Washington. J. Kansas Ent. Soc. 46:327-338.
- Alpert, Gary D. 1972. Aggregation of *Perothops witticki* LeConte. Coleopterists Bull. 26(2):73-74.
- Alpert, G. D. 1992. Observations on the genus *Terataner* in Madagascar (Hymenoptera: Formicidae). Psyche (Camb.) 99: 117-127
- Alpert, Gary D. 1994. A Comparative Study of the Symbiotic Relationship Between Beetles of the Genus *Cremastocheilus* (Coleoptera: Scarabaeidae) and their Host Ants (Hymenoptera:Formicidae). Sociobiology 25(1).
- Alpert, G. D. 2007. A review of the ant genus *Metapone* Forel from Madagascar, pp. 8-18. In Snelling, R. R., B. L. Fisher, and P. S. Ward (eds). Advances in ant systematics (Hymenoptera: Formicidae): homage to E. O. Wilson – 50 years of contributions. Memoirs of the American Entomological Institute, 80.
- Alpert, G. D. 2013. A new species of *Tyrannomyrmex* (Hymenoptera: Formicidae) from Sri Lanka, Zootaxa 3721 (3): 286–290.
- Alpert, G. D.; Akre, R. D. 1973. Distribution, abundance, and behavior of the inquiline ant *Leptothorax diversipilosus*. Annals of the Entomological Society of America 66:753-760.
- Alpert, G.D. and P.O. Ritcher 1975. Notes on the life cycle and myrmecophilous adaptations of "*Cremastocheilus*" "*armatus*" (Coleoptera: Scarabaeidae). Psyche 82, 283-291.
- Bolton, B.; Alpert, G.; Ward, P. S.; Naskrecki, P. 2007. Bolton's Catalogue of ants of the world: 1758-2005. Cambridge, Mass.: Harvard University Press, CD-ROM.
- Borowiec, M.L., Schulz, A., Alpert, G.D., Banar, P. 2011. Discovery of the worker caste and description of two new species of *Anomalomyrma* with unique abdominal morphology. Zootaxa 2810: 1-14.
- Clouse, R. M., Janda, M., Blanchard, B., Sharma, P., Hoffmann, B. D., Andersen, A. N., Czekanski-Moir, J. E., Krushelnicky, P., Rabeling, C., Wilson, E. O., Economo, E. P., Sarnat, E. M., General, D.

- M., Alpert, G. D. and Wheeler, W. C. (2015), Molecular phylogeny of Indo-Pacific carpenter ants (Hymenoptera: Formicidae, Camponotus) reveals waves of dispersal and colonization from diverse source areas. *Cladistics*, 31: 424–437.
- Duffield, R.; Alpert, G.D. 2011. Colony Structure and Nest Location of Two Species of Dacetine Ants: *Pyramica ohioensis* (Kennedy & Schramm) and *Pyramica rostrata* (Emery) in Maryland (Hymenoptera: Formicidae), *Psyche* (2011), Article ID 526175, 9 pages.
  - Eguchi, K., T. V. Bui, D. M. General and G. D. Alpert. 2009. Revision of the ant genus *Anillomyrma* Emery, 1913 (Hymenoptera: Formicidae: Myrmicinae: Solenopsidini). *Myrmecological News* 13: 31-36.
  - Ellison, A., Gotteli, N., Alpert, G.D. 2012. A Field Guide to the Ants of New England. 2012 (November) accepted for publication. Yale University Press.
  - General, D.M. & Alpert, G.D. 2012. A synoptic review of the ant genera of the Philippines. *ZooKeys* 200: 1-111.
  - Gronenberg, W., Hölldobler, B. & Alpert, G.D. 1998. Jaws that snap: control of mandible movements in the ant *Myrmica*. *Journal of Insect Physiology* 44: 241-253.
  - Guenard, B.\*, Shik, J.Z.\*, Booher, D., Lubertazzi D., Alpert G. (2016) Extreme polygyny in the previously unstudied subtropical ant *Temnothorax tuscaloosae* (Hymenoptera: Formicidae), with implications for the biogeographic study of the evolution of polygyny. *Insectes Sociaux*.
  - Heinze, J., Hölldobler B., Alpert G. 1999. Reproductive Conflict and Division of Labor in *Eutetramorium mocquersyi*, a Myrmicine Ant Without Morphologically Distinct Female Reproductives. *Ethology* 105 (8): 701-717
  - Hita Garcia, F.; Fischer, G.; Liu, C.; Audisio, T.L.; Alpert, G. D.; Fisher, B. L.; Economo, E. P. 2017. X-Ray microtomography for ant taxonomy: An exploration and case study with two new *Terataner* (Hymenoptera, Formicidae, Myrmicinae) species from Madagascar. *PLoS ONE* 12(3):e0172641.
  - Hita Garcia, F.; Hawkes, P. G.; Alpert, G. D. 2014. Taxonomy of the ant genus *Proceratium* Roger (Hymenoptera, Formicidae) in the Afrotropical region with a revision of the *P. arnoldi* clade and description of four new species. *ZooKeys* 447:47–86.
  - Hita Garcia F., Mbanyana N., Audisio T.L. & Alpert G.D. 2017. Taxonomy of the ant genus *Nesomyrmex* Wheeler (Formicidae, Myrmicinae) in the Afrotropical region, with a review of current species groups and description of a new species of the *N. angulatus* group from Mozambique. *European Journal of Taxonomy* 258: 1–31.
  - Hölldobler, B.; Liebig, J.; Alpert, G. D. 2002. Gamergates in the myrmicine genus *Metapone* (Hymenoptera: Formicidae). *Naturwissenschaften* 89:305-307.
  - Hölldobler, B., Obermayer, M. & Alpert, G.D. 1998. Chemical trail communication in the amblyopone species "*Myrmica rogeri*" Forel (Hymenoptera, Formicidae, Ponerinae). *Chemoecology*. 8:119–123.
  - Hölldobler, B.; Oldham, N. J.; Alpert, G. D.; Liebig, J. 2002. Predatory behavior and chemical communication in two *Metapone* species (Hymenoptera: Formicidae). *Chemoecology* 12:147-151.
  - Lubertazzi, D. ; Alpert, G.D. 2014. The Ants (Hymenoptera: Formicidae) of Jaragua National Park, Dominican Republic. *Journal of Insects*. Volume 2014, Article ID 104157, 6 pages.
  - Moglich, M. and G.D. Alpert 1979. Stone dropping by *Conomyrma bicolor* (Hymenoptera: Formicidae). A new technique of interference competition. *Behav. Ecol. Sociobiol.* 6:105-113.
  - Schubiger, G. and G.D. Alpert 1975. Regeneration and duplication events in a temperature sensitive homeotic mutant of *Drosophila melanogaster*. *J. of Devel. Biology* 42(292-304).
  - Taylor, R. W.; Alpert, G. D. 2016. The myrmicine ant genus *Metapone* Forel (Hymenoptera: Formicidae): a global taxonomic review with descriptions of twelve new species. *Zootaxa* 4105(6):501-545.
- (d) Activities
- Co-instructor for the Ant Course. Taught in alternate years at the Southwestern Research Station, Arizona. Sponsored by Harvard University and the Cal. Acad. of Science. Intensive 2 week course on ant taxonomy and ant biology 2001-2011.

- Coordinator for the AntWiki Project [http://ants.csiro.au/Main\\_Page](http://ants.csiro.au/Main_Page) . Web based tools for exchange of technical information on Formicidae and collaboration with scientists and students on a global basis.
- Instructor and collaborator with the Navajo Nation on Ant Biodiversity, currently have a Navajo Fish and Wildlife Permit for arthropods. Training of Navajo biology interns and collaboration with Navajo scientists. Creation of Navajo Nature web site at: <http://navajonature.org/> Funded this research via a grant from the Christensen Fund.
- Coordination of ant type database and image project at Harvard University with expertise in macro image technology. Collaboration with Leica, Syncroscopy, the Public Health branch of the U.S. Army and FileMaker.
- Taught the Ant Course for the Below Ground Biodiversity Project under direction of David Bignell that included participation by Sulawesi, Uganda, Kenya and other countries.

(e) Collaborators & Other Affiliations

- Guernard, Benoit ( Ph.D., North Carolina University). Collaboration on a publication, “The Reproductive Ecology of *Temnothorax tuscaloosae*” with David Lubertazzi.
- Lubertazzi, David (postdoc, Harvard University). Collaboration on a publication, “The Reproductive Ecology of *Temnothorax tuscaloosae*” with Benoti Guenard. Also a collaborator on the AntWiki project and the Encyclopedia of Life..
- Shattuck, Steve (Museum Curator, CSIRO, Australia). Collaboration with Steve Shattuck on creation of a web site AntWiki (30,000 pages). Barry Bolton (retired, Museum Curator, British Museum of Natural History) is also a collaborator on this project.
- Stevens, Larry (Ecologist, Museum of Northern Arizona). Project to co-author a publication on the ants of the Colorado River in the Grand Canyon.
- Stevenson, Robert (Professor, Univ. Mass. Boston). I am working with Robert Stevenson and Bob Morris (Univ. Mass Boston) to produce Electronic Field Guides for ants.
- Wetterer, James (Professor, Florida Atlantic University). I am included in the recent NSF Biodiversity Grant awarded to Jim Wetterer, of Florida Atlantic University. This is a biodiversity survey of the ants of the Lesser Antilles, and includes collecting, mounting, labeling, identifying and photographing ants. I traveled to St. Lucia where I collected ants that are deposited in the MCZ ant collection. I have a major role in producing high quality images of ants for the web.
- Wilson, Edward O. (Emeritus, Harvard University). Collaboration in progress for the Project: Ants of Gorongosa National Park, Mozambique.

(f) Awards

- Phi Beta Kappa (1969)
- NDEA TITLE IV Scholarship (1969-1972)
- E.O. Holland Scholarship to the University of Madrid, Spain 1972
- Psi Chi (Psychology honor society), 1968
- NSF Fellowship for doctoral research, 1978-1980
- Danforth Teaching Award, Harvard University, 1980
- Anderson Fund Grant, Harvard University, 1976
- Richmond Fund Grant, Harvard University, 1977