

CURRICULUM VITAE

NORMAN DALE PENNY,

31 July 2008

Senior Collections Manager, Dept. of Entomology, Calif. Acad. of Sciences

BIRTH DATE: 13 March 1946 at Manhattan, Kansas.

BUSINESS ADDRESS: Dept. of Entomology
California Academy of Sciences
875 Howard Street
San Francisco, California 94103
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MARITAL STATUS: Married (Ana Maria) with 1 child (Fabio).

EDUCATION:

B.S. in Entomology, Iowa State University - 1968
Advisor: Dr. Jean Laffoon (Grade point average - 2.93)

M.S. in Entomology, University of Illinois - 1970
Advisor: Dr. William Luckmann (Grade point - 3.30)

Ph.D. in Entomology, University of Kansas - 1974
Advisor: Dr. George W. Byers (Grade point average - 3.61)
Thesis: A Systematic Study of the family Boreidae
(Mecoptera).

SOCIETY MEMBERSHIPS:

Kansas Entomological Society, Entomological Society of America, Pacific Coast Entomological Society, Xerces Society.

PRINCIPAL AREAS OF PROFESSIONAL INTEREST:

Taxonomy, biology, zoogeography, and population dynamics of Neuroptera, Mecoptera, and fulgoroid Homoptera.

PROFESSIONAL EXPERIENCE:

1975 - 1976: Researcher, U.S. Peace Corps, West Malaysia, and

Malaysian Agricultural Research and Development Institute (MARDI) at Rice Research Institute, Bumbong Lima, Province Wellesley, West Malaysia. Duties included research on population dynamics of rice leafhoppers and planthoppers, and their natural predators and parasites.

1976 - 1982: Assistant Researcher, Department of Entomology and Curator, Systematics Research Collections in Entomology, Instituto Nacional de Pesquisas da Amazonia (INPA), Manaus, Amazonas, Brazil. Chairman, from 1978 to 1982. Duties included administration of the Department, starting and maintaining the first on-site systematics research collection in Entomology for the upper Amazon region, and graduate level teaching in Portuguese. Research and collecting conducted throughout the Amazon Basin, which included various extended field excursions to remote areas. Consulting studies done at the major Brazilian collections in Belem, Sao Paulo, and Rio de Janeiro. Participation in ecological impact statements for ALCOA, World Bank, and northern Brazil electrical authority.

1982 - Jan. 1984: Associate Researcher and Chief, Department of Entomology and Curator, Systematics Research Collections in Entomology (INPA). Duties the same as previous years.

Feb. - Nov. 1984: Visiting Professor, Department of Entomology, Iowa State University, Ames, Iowa. Full time research on corn insect ecology. Duties included assisting Dr. William B. Showers with research on ecology, bionomics, and migration of corn insects, principally Black Cutworm, Armyworm, and European Corn Borer. Studies included monitoring seasonal agricultural insect population dynamics for potential allergic reactions.

Dec. 1984 - Jan. 1991. Collections Manager, Department of Entomology, California Academy of Sciences. Duties include computerization of collection holdings, loans, and accessions, using IBM hardware, and Microsoft's ACCESS relational database software. Other duties include identification of insects for the public, supervision of departmental technicians, presenting public talks, assisting visitors and guests, assisting in writing departmental grant proposals and reports, and upgrading the curation of the Entomology Collection.

Feb. 1991 - present. Senior Collections Manager, Department of Entomology, California Academy of Sciences. Duties include same as above for Collections Manager.

TEACHING EXPERIENCE:

1973 - 1974. Graduate Teaching Assistant, General Entomology, University of Kansas. Duties included supervising laboratories and occasionally giving short lectures on general Entomology topics.

1977, 1978, 1980, 1982. Professor, Insect Taxonomy (INPA - Manaus. Topics included taxonomy of Brazilian insects with introduction to the principles of systematics and nomenclature; instruction in Portuguese.

1979, 1981. Professor, Insect Evolution (INPA - Manaus). Topics included evolution of extinct and extant insectan groups and their morphological structures; instruction in Portuguese.

1990. Instructor, Insects of Medical Importance. A CAS adult short course taught one night a week for one month (Jan. 9, 16, 23, 30). Each class was for two hours and dealt with current public health issues such as Lyme Disease, Plague, Malaria, etc.

1991. Instructor, Insects of the Tropics. A CAS adult short course taught Oct. 21, 1991. Colorful tropical insects were shown in slides and preserved specimens.

1992. Instructor, "Species Lost". A team taught CAS adult short course taught on two evenings for 2 hours each (Feb. 6, 13). Half hour presentations on various groups of endangered or extinct species.

1995. Instructor, "Taxonomy of Neuropteroid Insects". A one credit course sponsored through San Francisco State University on the detailed taxonomy of Neuroptera. Course given over five Saturdays from April 22 to May 20, 1995. Total 10 hours lecture, 30 hours lab.

STUDENTS ADVISED

Masters Degree Thesis Committee

Lindalva Paes de Albuquerque - 1979 (Taxonomy of Micropezidae)

Adelmar G. Bandeira - 1978 (Nitrogen Fixation by Termites)

Eloy G. Castellon - 1978 (Taxonomy of Amazonian Sand Flies)

Julio Dellome Filho - 1979 (Triatome bug taxonomy)
Inocencio Gorayeb - 1978 (Taxonomy of Amazonian Black Flies)
Ana Yoshi Harada - 1981 (Plant/Ant Commensalism in Amazonia)
Jose Lopes - 1978 (Container communities of mosquitos)
Jose Antonio Paulino Luna Dias - 1978 (Black Fly Taxonomy)
Bento Mascarenhas (Major Advisor) - 1978 (Taxonomy of Gerridae)
Mauricio Mendonca - 1978 (Web Construction by Theridid spiders)
Norival Paraluppi - 1978 (Age distribution in Anophelines)
Francisco Javier Aqilera Peralta (Stingless bee taxonomy)
Jose Albertino Rafael - 1980 (Seasonal Fluctuation in Tabanidae)
Elisiana Rufino - 1979 (Taxonomy of Amazonian Collembola)
Joselita M.M. dos Santos - 1978 (Age distribution in Anophelines)
Miriam Serrano (Major Advisor) - 1978 (Colonies of Flatidae)
Claudio Ruy Vasconcelos de Fonseca - 1982 (Subsocial Passalidae)
Ceclie Biancardi - 1982 (Taxonomy of Amazonian Sand Flies)

Ph.D. Degree Thesis Committee

Inocencio Gorayeb (Major Advisor) - 1983 (Taxonomy of Tabanidae)

FUNDING RECEIVED:

1972 - Graduate Research Council, University of Kansas (\$500 for thesis field research in western U.S.).

1983 - ALCOA ecological impact statement on insects of an area of Rio Trombetas being proposed for mining development (quantity of funds unknown, as my proposal was part of a larger institutional grant proposal for study of soils, climate, animals and plants - administered by INPA financial section). It included enough funding for 6 persons to spend 10 days on site collecting.

1983 - World Bank ecological impact statement on effect of paving a road in Rondonia State, Brazil on insect populations (quantity of funds unknown, as my proposal was part of a larger institutional grant proposal for study of soils, climate, animals and plants - administered by INPA financial section). It included enough funding for 6 persons to spend 2 weeks on site collecting.

1983 - Northern Brazil Electrical Authority (ELETRONORTE) ecological impact statement on effect of several small dams on the animal and plant life of the lower Rio Araguaia (quantity of funds unknown, as my proposal was part of a larger institutional grant proposal for study of soils, climate, animals and plants - administered by INPA

financial section). It included enough funding for 6 persons to spend 2 weeks on site collecting.

- 1985 - National Science Foundation Institutional Grant to Entomology Department of California Academy of Sciences (\$464,000 grant for 5 year period). Although not present for initial submission of grant proposal, I did have a substantial role in subsequent revisions and modifications, especially in the area of justification for need of computer equipment.
- 1986 - California Academy of Sciences, In House Research Fund (\$200 for line drawings for book on Fulgoridae).
- 1987 - Christensen Research Foundation Grant (ca. \$3000 for round-trip airfare, lodging, food, and ground transport for two months in Papua New Guinea).
- 1988 - California Academy of Sciences, In House Research Fund (\$643 for attendance at national ESA meeting).
- 1989 - Christensen Research Foundation Grant (ca. \$3000 for round-trip airfare, lodging, food, and ground transport for two months in Papua New Guinea. \$400 expenses for travel in PNG away from the research station).
- 1989 - California Academy of Sciences, In House Research Fund (\$478 for attendance at national ESA meeting).
- 1990 - California Academy of Sciences, Departmental Endowment Fund (\$500 to defray cost of collecting trip to Costa Rica).
- 1990 - California Academy of Sciences, In House Research Fund (\$884 for attendance at national ESA meeting).
- 1991 - California Academy of Sciences, Internal Funding for Neuroptera studies at La Amistad Field Station for one month (\$992).
- 1991 - National Science Foundation facilities grant to Entomology Department of California Academy of Sciences for total collection inventory, as well as maintenance of departmental collection and special projects. (\$1,000,713 for a five-year period - co-principal investigator).

- 1991 - California Academy of Sciences, In House Research Fund (\$435 for attendance at national ESA meeting).
- 1992 - National Science Foundation (MUSE Project) workshop on Computers in Natural History Collections. A competitive award to 25 participants from 146 applicants. (Room and board for 6 days at Univ. of California, Berkeley campus).
- 1992 - California Academy of Sciences, In House Research Fund (\$835 for attendance at national ESA meeting and study at Smithsonian Institution).
- 1992 - Museum of Comparative Zoology, Harvard University - Ernest Mayr Grants (\$637 to study MCZ Leucochrysin types for one week).
- 1993 - California Academy of Sciences, In House Research Fund (\$1007 for attendance at national ESA meeting and study at Field Museum).
- 1993 - California Academy of Sciences, In House Research Fund (\$200 for illustrations for Neuroptera manual).
- 1994 - California Academy of Sciences, In House Research Fund (\$783 for attendance at national ECN & ESA meetings).
- 1995 - California Academy of Sciences, In House Research Fund (\$600 for illustrations for Neuroptera manual).
- 1995 - California Academy of Sciences, In House Research Fund (\$500 for illustrations for Neuroptera manual).
- 1996 - California Academy of Sciences, In House Research Fund (\$500 for illustrations for Neuroptera manual).
- 1997 - California Academy of Sciences, In House Research Fund (one United Airlines travel voucher for attendance at VI International Symposium of Neuropterology).
- 1997 - California Academy of Sciences, In House Research Fund (\$325 payment of page charges for scientific article).
- 1998 - California Academy of Sciences, In House Research Fund (\$540 payment to attend national Entomology meetings)
- 1998 - California Academy of Sciences, In House Research Fund

(\$500 payment for illustrations for Neuroptera paper).

1999 – California Academy of Sciences, In House Research Fund
(\$2,070 to study Madagascar types in Paris Museum)

1999 – California Academy of Sciences, In House Research Fund
(\$1,000 for illustrations for monograph on Costa Rican Neuroptera)

2000 – California Academy of Sciences, In House Research Fund
(\$1,154 for attendance at XXI International Congress of Entomology)

2000 – California Academy of Sciences, Lindsay Travel Fund
(\$870 for field collecting in central Amazonia).

2000 – California Academy of Sciences, In House Research Fund
(\$600 for illustrations for Neuroptera of Mexico)

2000 – California Academy of Sciences, In House Research Fund
(\$500 for illustrations for new species of Chrysopidae)

SERVICE EXPERIENCE:

Organizational:

- 1991 President-Elect, Pacific Coast Entomological Society
- 1992 President, Pacific Coast Entomological Society
- 1991-1992 Member, ESA Thomas Say Foundation Awards Committee
- 1993 Chairman, ESA Thomas Say Foundation Awards Committee
- 1993-1994 Judge of Student Paper Competition at ESA meetings
- 1995 Secretary-Elect, Section A, Entomol. Society of America
- 1996 Secretary, Section A, Entomological Society of America
- 1996-1997 Member, ESA Snodgrass Award Committee
- 1997 Chair-elect, Section A, Entomological Society of America
- 1998 Chair, Section A, Entomological Society of America

Grant Reviewer:

- 1990 National Science Foundation
(Biological Research and Resources Program)
- 1991 National Science Foundation
(Biological Research and Resources Program)
(Faunal and Floral Inventory Program)
- 1992 National Science Foundation
(Program for Research Collections in Systematics and Ecology)
(Systematic and Population Biology Program)
- 1993 National Science Foundation
(Program for Research Collections in Systematics and

- Ecology)
- 1994 National Science Foundation
(Program for Research Collections in Systematics and Ecology)
- 1995 National Science Foundation
(Program for Research Collections in Systematics and Ecology)
- 1996 National Science Foundation
(Systematic and Population Biology Program)
- 2002 National Science Foundation
(Biotic Surveys and Inventories Program)
- 2003 National Science Foundation
(Systematic Biology Program)
- 2004 National Science Foundation
(Systematic Biology and Biodiversity Inventory Program)
- 2006 National Science Foundation
(Biological Research Collections Program)

Manuscript Reviewer:

Acta Amazonica
 Calif. Acad. Sci., Scientific Publications
 Entomological News
 Journal of the Kansas Entomological Society
 Journal of the North American Benthological Society
 Kansas Science Bulletin
 Pan-Pacific Entomologist
 Transactions of the Entomological Society of Washington
 ESA Thomas Say Publications
 Acta Zoologica Fennica
 Annals of the Entomological Society of America

Talks and Lectures

- 1974 Radio program on winter insects for University of Kansas radio station, Lawrence, Kansas.
- 1983 Television program on insects for Educational Channel (2), Manaus, Brazil; in Portuguese.
- 1986 Radio program "Science in Action" on insects for KCBS - San Francisco on July 19, 1986 from 8:00-9:00 p.m.
- 1987 Telephone interview on California oak moths for KCBS radio - San Francisco on June 18, 1987 at 7:30 a.m.
- 1987 Member's Lecture at California Academy of Sciences on the Geology, History, and Biology of the Amazon Basin on August 12 and 13, 1987.
- 1987 Lecture at the San Francisco Zoo on Insect Diversity on August 22, 1987 at 10:00 a.m.
- 1988 Radio program "Science in Action" on insects for KCBS -

- San Francisco on June 5, 1988 from 7:00 - 8:00 p.m.
- 1989 Lecture to high school students at AAAS Science Encounters '89 on January 14, 1989 (10:15-11:00 a.m.).
- 1989 Lecture to Biology Forum teachers on Amazonian insects at CAS on February 19, 1989 (1:00 - 2:30 pm).
- 1989 Radio program "Science in Action" on insects for KCBS - San Francisco on June 17, 1989 from 7:00 - 8:00 p.m.
- 1990 Lecture to University of California, Berkeley, Graduate Seminar on 8 October 1990 (4:00 - 5:00 pm). "Biology & Systematics of Neuroptera".
- 1990 Talk to 3rd and 8th grade students at St. Paul's College, San Antonio de Belén, Heredia, Costa Rica on Costa Rican insects on 19 September, 1990.
- 1990 Lecture to Biology Forum teachers on Insects at CAS on 18 November, 1990 (10:00 - 11:00 a.m.).
- 1992 Two radio interviews for KCBS and KGO on migration of Painted Lady Butterflies (April, 1992).
- 1992 Presidential Address, Pacific Coast Entomology Society (December, 1992) - Computers in Systematic Entomology.
- 1993 Lecture to Society for Conservation Biology - Northern California Chapter - California's Endangered Insects (18 May 1993).
- 1993 Lecture to Alternative Lifelong Learning Organization on Biodiversity of Insects, Berkeley, California, (7 December 1993).
- 1994 Lecture to Entomological Collections Network on specimen level databases in Dallas, Texas (11 December 1994)
- 1995 Lecture to Biology Class at Stanford University on "Need for Systematists in Systematics" (20 January 1995)
- 1995 Lecture to Pacific Coast Entomological Society on "Specimen Level Databases" (17 February 1995)
- 1995 Lecture for CAS adult education on "Insects of the Amazon Basin" (6 October 1995)
- 1996 Lecture to Pacific Coast Entomological Society on "Costa Rican Neuroptera" (19 January 1996)
- 1996 Lecture to Introduction to Insects Class (ESPM - 41) at Univ. of California, Berkeley on biology and classification of Neuropterida and Mecoptera (28 February 1996)
- 1996 Lecture on "Entomological Entities" to CAS Adult Education class, 7-9 pm (11 March 1996)
- 1996 Talk to Entomological Collections Network on "Computerized Inventory of CAS Insect Collection"

- (6 December 1996)
- 2001 Lecture to Pacific Coast Entomological Society on
“Amazonian Insects” (19 January 2001)
- 2002 Twenty-minute talk at Entom. Collections Network
“Arthropod Biodiversity Projects at C.A.S.”
- 2002 Twenty-minute talk at Entom. Collections Network
“Preserving Specimens from Major Expeditions”
- 2003 Lecture to Pacific Coast Entomological Society on
“Antlions of Madagascar” (April 2003)
- 2003 Lecture to International Symposium of Neuropterology on
“Antlions of Madagascar” (August 2003)
- 2003 Lecture to retired staff members of Univ. of Calif. Berkeley
on “Insect Collecting in Yunnan, China” (December 2003)
- 2004 Lecture to Pacific Coast Entomological Society on
“Adventures in Collecting – China – 2003” (20 Feb. 2004)
- 2006 Lecture to Pacific Coast Entomological Society on “Conserving Madagascar’s
Fauna and Flora Through Arthropod Biotic Surveys and Inventories” (20 Jan.
2006)
- 2007 Lecture to CAS docents on “Norman Penny, lacewings, and Entomology
Collections” (29 Sept. 2007 & 8 Oct. 2007)
- 2007 Presentation to Combined 8th Invertebrate Biodiversity and Conservation/Society
of Australian Systematic Biologists Conference by Shaun Winterton, Atsushi
Mochizuki, Naoto Haruyama and Norman Penny (presented by Shaun Winteron 4
Dec. 2007)
- 2007 Lecture to Entomological Collections Network on “When is Enough, Enough”
(9 Dec. 2007)

FIELD EXPERIENCE:

Extensive field research conducted in Malaysia, Thailand,
China, Kenya, Uganda, Mexico, Costa Rica, Brazil, Papua New Guinea, Sao Tome,
Madagascar, central, southeastern, and western United States. More
limited collecting in Fiji and Australia.

HONORS BESTOWED:

Initiation in Alpha Zeta - Agricultural Honorary - 1967
Initiation in Sigma Zi - Scientific Honorary - 1972
Fellow of the Christensen Research Institute, Papua New
Guinea - 1986 to present.

Honored with new scientific names of insects:

Macronema pennyi Flint (Trichoptera: Hydropsychidae)
Phlotodes pennyi New (Psocoptera: Myopsocidae)
Epipsocus pennyi New (Psocoptera: Epipsocidae)

Lutzomyia pennyi Arias (Diptera: Psychodidae)
Eremoleon pennyi Stange (Neuroptera: Myrmeleontidae)
Dimarella pennyi Stange & Miller (Neuroptera: Myrmeleontidae)
Coniopteryx (Scotoconiopteryx) pennyi Meinander
 (Neuroptera: Coniopterygidae)
Semidalis normani Meinander (Neuroptera: Coniopterygidae)
Heteroconis pennyi Meinander (Neuroptera: Coniopterygidae)
Agra pennyi Erwin (Coleoptera: Carabidae)
Peritropoides pennyi Carvalho (Hemiptera: Miridae)
Lasiacantha pennyi Göllner-Scheiding (Hemiptera: Tingidae)
Lycoderes pennyi Sakakibara (Homoptera: Membracidae)
Dysimiella pennyi Broomfield (Homoptera: Derbidae)
Docalidia pennyi Nielson (Homoptera: Cicadellidae)
Guineapsaltria pennyi de Boer (Homoptera: Tibicinidae)
Hemerobius pennii Monserrat (Neuroptera: Hemerobiidae)
Neopanorpa pennyi Byers (Mecoptera: Panorpidae)
Ravola pennyi Banaszkiwicz & Szwedo (Hemiptera: Fulgoromorpha: Derbidae)

COLLECTION BASED RESEARCH CONDUCTED:

Iowa State University Collection - 1964-68, 1984, 1987, 1989,
 1991-94, 1996, 2005
 Illinois State Natural History Survey - 1968-1970, 1978
 Snow Entomological Collection, Lawrence, Kansas -
 1970-1974, 1978, 1982, 1984, 1992, 1998
 Oregon State University Insect Collection - 1972, 1994
 Oklahoma State University Insect Collection - 1974
 California Academy of Sciences, San Francisco - 1975
 Malaysian National Museum, Kuala Lumpur - 1975, 1976
 South Dakota State University Insect Collection - 1976
 U.S. National Museum, Washington - 1976, 1978, 1992
 Museu Nacional, Rio de Janeiro - 1977, 1983
 Museu de Zoologia, Univ. de Sao Paulo, Sao Paulo - 1977
 Instituto Oswaldo Cruz, Rio de Janeiro - 1978
 Florida State Collection of Arthropods, Gainesville - 1978
 Field Museum of Natural History, Chicago - 1968, 1978, 1993
 Museu Paraense Emilio Goeldi, Belem, Para - 1979, 1983
 Naturhistorisches Museum, Vienna - 1980
 Museum national d'Histoire Naturelle, Paris - 1980, 1999
 British Museum (Natural History), London - 1980, 1982, 1997
 Hope Natural History Museum, Oxford - 1980
 San Diego Natural History Museum, San Diego - 1982, 1999
 Nebraska State Museum, Lincoln - 1984, 1992
 California Insect Survey, U. of Calif., Berkeley - 1985-2005, 2007

L.A. Co. Nat. Hist. Museum, Los Angeles - 1985, 1994-1997, 1999
Monte L. Bean Life Science Museum, Provo, Utah - 1986
University of Papua New Guinea Insect Collection - 1987, 1989
University of California, Riverside - 1988, 1999
California Dept. Food & Agriculture, Sacramento - 1989
Pennsylvania State University - 1989
University of California, Davis - 1990, 1994, 1999, 2002
Instituto Nacional de Biodiversidad - 1990, 1991
Universidad de Costa Rica - 1990, 1991
CATIE, Turrialba, Costa Rica - 1990
Louisiana State University - 1990
Nevada Dept. of Agriculture, Reno - 1991
Museum of Comparative Zoology, Harvard University - 1992
Purdue University, West Lafayette, Indiana - 1993
Natural History Museum, Basel, Switzerland - 2005

MEETINGS

Entomological Society of America (1969, 1981, 1988-1999, 2001-2002, 2004, 2006-7)
North Central Branch, E.S.A. (1971, 1972, 1984)
Kansas Entomological Society (1973, 1974, 1984)
First International Symposium on Neuropterology (1980)
Sixth International Symposium on Neuropterology (1997)
Eighth International Symposium on Neuropterology (2003)
Ninth International Symposium on Neuropterology (2005)
Congresso Entomológico do Brasil (1978)
Congresso Brasileiro de Zoologia (1982)
Association of Systematics Collections (1985, 1995)
Second International Workshop on Auchen. Homoptera (1986)
Workshop on Computers in Insect Collection Management (1989)
Entomological Collection Network (1990-2002, 2004, 2006, 2007)
Workshop on Computers in Natural History Collections (May, 1992)
Society for the Preservation of Natural History Collections (1992)
International Congress of Entomology (2000)

ELECTRONIC PUBLICATIONS

1. 1994- Present. Neuropterists Newsletter.
<http://www.calacademy.org/research/entomology/newsletters/index.html>
2. 1995. Genus-group Names of the Neuroptera, Megaloptera and Raphidioptera of the World.
<gopher://gopher.calacademy.org:70/11/depts/ent/catalog>
3. 1996. Bibliography of the Mecoptera.
<gopher://gopher.calacademy.org:70/11/depts/ent/wmecoptera>
4. 1996. (with E.S. Ross). Check-list of Extant World Embiidina.

[gopher://gopher.calacademy.org:70/11/depts/ent/embilist](http://gopher.calacademy.org:70/11/depts/ent/embilist)

5. 1997. Check-list of World Mecoptera.
<http://www.calacademy.org/research/entomology/mecoptera/>
6. 1997. (with Julie Parinas) CAS Entomology Collection Website.
<http://www.calacademy.org/research/entomology/website1/>
7. 1997. (with Julie Parinas) Stewart Valley Fossil Insects Website
<http://www.calacademy.org/research/entomology/fossil>
8. 1998. (with Julie Parinas) CAS Madagascar Project.
<http://www.calacademy.org/research/entomology/madagas/>
9. 1998. (with Julie Parinas) First CAS Madagascar Expedition.
<http://www.calacademy.org/research/entomology/madagas/entomexp.htm>
10. 1998. (with Julie Parinas). Notes on Madagascar Neuropterida.
<http://www.calacademy.org/research/entomology/madagas/madindex.html>
11. 1999. (with Julie Parinas). Neuroptera in California Collections.
<http://www.calacademy.org/research/entomology/calneuro/calindex.htm>
12. 2001. (with F.R. Penny). A Biological Survey of the Gulf of Guinea Islands.
http://www.calacademy.org/research/guinea_islands.htm

WRITTEN PUBLICATIONS

1. 1966. Sparks, A.N., Brindley, T.A. and Penny, N.D. Laboratory and field studies of F1 progenies from reciprocal matings of the European Corn Borer. *Journal of Economic Entomology*, 59:915-921.
2. 1969. A new species of "Bittacus" (Mecoptera: Bittacidae) from India. *Oriental Insects*, 3:161-164.
3. 1975. Webb, D.W., Penny, N.D. and Marlin, J.C. The Mecoptera, or scorpion-flies, of Illinois. *Bulletin of the Illinois Natural History Survey*, 31:251-316, 187 figs.
4. 1975. Evolution of the extant Mecoptera. *Journal of the Kansas Entomological Society*, 48:331-350, 7 figs.
5. 1977. A systematic study of the family Boreidae (Mecoptera). *University of Kansas Science Bulletin*, 51:141-217.
6. 1977. Problems and solutions to insect identification and literature retrieval in

- developing countries (abstract). Association of Systematic Collections Newsletter, 5(3):29.
7. 1977. Two new species of Bittacidae (Mecoptera) from the Amazon Basin. *Acta Amazonica*, 7(3):423-427.
 8. 1978. Lista de Megaloptera, Neuroptera e Raphidioptera do Mexico, America Central, Ilhas Caraibas e America do Sul. *Acta Amazonica*, (supl.), 7(4):1-61.
 9. 1978. Webb, D.W. and Penny, N.D. "Neopanorpa byersi" (Mecoptera: Panorpidae) a new species from Thailand. *Pacific Insects*, 20:63-66.
 10. 1978. Penny, N.D. and Avery, M.L. Collections of scorpionflies (Mecoptera) of West Malaysia. *Malay Nature Society Journal*, 30:555-559.
 11. 1978. Avery, M.L. and Penny, N.D. Analysis of pellets from Blue-tailed and Blue-throated Bee-eaters in Province Wellesley, Malaysia. *Malay Nature Society Journal*, 30: .
 12. 1978. Penny, N.D., Arias, J.R. and Schubart, H.O.R. Tendencias populacionais da fauna de Coleopteros do solo sob floresta da terra firma na Amazonia. *Acta Amazonica*, 8(2):259-266.
 13. 1978. Ratcliffe, B.C. and Penny, N.D. As colecoes de Entomologia Sistemica do Instituto Nacional de Pesquisas da Amazonia. *Ciencia e Cultura*, 30(5):627-628.
 14. 1978. Ratcliffe, B.C. and Penny, N.D. Catalogo dos tipos de invertebrados depositados na Colecoes Entomologicas do INPA-Manaus. *Acta Amazonica*, 8(4):689-698.
 15. 1979. Penny, N.D. and Byers, G.W. A check-list of the Mecoptera of the World. *Acta Amazonica*, 9(2):365-388.
 16. 1979. Penny, N.D. and Byers, G.W. Chave para a identificacao das familias e generos da ordem Mecoptera do Mexico, America Central e America do Sul. *Acta Amazonica*, 9(2):362-364.
 17. 1980. A revision of American Bennini (Hemiptera: Fulgoroidea: Cixiidae). *Acta Amazonica*, 10(1):97-102.
 18. 1980. Arias, J.R. and Penny, N.D. A entomofauna da Bacia Amazonica. *Acta Amazonica*, (supl.), 9(4):103-107.
 19. 1981. Penny, N.D. and Arias, J.R. Two new species of "Bakerius" from the Amazon

- Basin (Homoptera: Aleyrodidae). *Acta Amazonica*, 10(3):691-695.
20. 1981. Penny, N.D. and Arias, J.R. A new species of "Ceraleurodius" from the Amazon Basin (Homoptera: Aleyrodidae). *Acta Amazonica*, 10(4):903-905.
 21. 1981. Penny, N.D. Neuroptera, In, Hurlburt, S.B., Rodriguez, G. and dos Santos, N.D. Aquatic Biota of Tropical South America. Part 1 Arthropoda. San Diego State University Press, San Diego, CA, U.S.A. 323 pp.
 22. 1981. Neuroptera of the Amazon Basin. Part 1 Sisyridae. *Acta Amazonica*, 11(1):157-169.
 23. 1981. Neuroptera of the Amazon Basin. Part 2 Dilaridae. *Acta Amazonica*, 11(2):383-390.
 24. 1981. Review of the generic level classification of New World Ascalaphidae (Neuroptera). *Acta Amazonica*, 11(2):391-406.
 25. 1981. Neuroptera of the Amazon Basin. Part 3 Ascalaphidae. *Acta Amazonica*, 11(3):605-651.
 26. 1981. Penny, N.D. and Arias, J.R. Observations on the egg and larva of "Nannobittacus elegans" Esben-Petersen, 1927 (Mecoptera: Bittacidae). *Journal of the Kansas Entomological Society*, 54(3):465-468.
 27. 1982. Neuroptera, pp. 280-282, In, Hurlburt, S.B. and Villalobos-Figueroa, A., Aquatic Biota of Mexico, Central America, and the West Indies. San Diego State University Press, San Diego, CA, U.S.A.
 28. 1982. Neuroptera of the Amazon Basin. Part 4 Sialidae. *Acta Amazonica*, 11(4):843-846.
 29. 1982. Review of the generic level classification of New World Mantispidae (Neuroptera). *Acta Amazonica*, 12(1):209-223.
 30. 1982. Penny, N.D. and Arias, J.R. Insects of an Amazon Forest. Columbia University Press, New York. 270 pp., 127 figs., 93 graphs, and 18 tables.
 31. 1982. Penny, N.D. and Flint, O.S., Jr. Revision of the genus "Chloronia" (Megaloptera: Corydalidae). *Smithsonian Contributions to Zoology*, 348:1-27.
 32. 1982. Meinander, M. and Penny, N.D. Neuroptera of the Amazon Basin. Part 5 Coniopterygidae. *Acta Amazonica*, 12(1):185-208.
 33. 1982. Neuroptera of the Amazon Basin. Part 6 Mantispidae. *Acta Amazonica*,

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