

CURRICULUM VITAE
(revised March, 2011)

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PERSONAL DATA

Birthdate and place: 7 April 1945; San Francisco, California
Citizenship: United States of America

EDUCATION

University of Alberta, Edmonton, Alberta, 1970-78. Ph.D (Entomology) (October, 1978)
University of Colorado, Denver/Boulder, Colorado, 1969-70. M.A. (Biology) (May, 1970)
University of Colorado School of Medicine, Denver, Colorado, 1967-69.
San Jose State University, San Jose, California, 1963-67. B.A. (Biological Sciences) (June, 1967)

PROFESSIONAL EXPERIENCE

Research and Curatorial Appointments

Research Associate, National Museum of Natural History, Smithsonian Institution, Washington, D.C.,
November, 2009 to present.
Senior Curator, Department of Entomology, California Academy of Sciences, San Francisco, California.
July, 1988 to present.
Curator, Department of Entomology, California Academy of Sciences, San Francisco, California. July,
1984 to June, 1988.
Associate Curator, Department of Entomology, California Academy of Sciences, San Francisco,
California. April, 1979 to June, 1984.
Assistant Curator, Department of Entomology, California Academy of Sciences, San Francisco,
California. April, 1974 to March, 1979.
Curatorial Assistant, Department of Biological Sciences, San Jose State University, San Jose. 1966-67.

Administrative Appointments

Acting Director of Research, California Academy of Sciences, San Francisco, California. October to
December, 1989; September-October 2005.
Director of Research, California Academy of Sciences, San Francisco, California. January, 1986 to June,
1988; February, 2000 to April, 2005.
Chairman, Department of Entomology, California Academy of Sciences, San Francisco, California.
January, 1979 to March, 1983; June, 1990 to September, 1992; September, 1996 to August,
1998; September, 2009-present.

Teaching Appointments

Adjunct Professor (Step V), Department of Environmental Science, Policy, and Management, Division of Insect Biology, University of California, Berkeley, California. July, 2004 to present.
Research Professor of Biology, Department of Biology, San Francisco State University, San Francisco, California. June, 1998 to present.
Adjunct Professor of Biology, Department of Biology, Sonoma State University, Rohnert Park, California. August, 1987 to present.
Lecturer (full professorial grade), Department of Biology, Sonoma State University, Rohnert Park, California. September, 1986 to February, 1987; September, 1990 to February, 1991.
Lecturer and Laboratory Instructor, Department of Entomology, University of Alberta, Edmonton, Alberta. 1970-73.
Laboratory Instructor, Science Department, Arapahoe Junior College, Littleton, Colorado. 1970.
Lecturer, Science Department, St. Thomas Seminary, Denver, Colorado. 1969-1970.
Laboratory Instructor, Department of Biology, University of Colorado, Denver. 1969-1970.

Technical Appointments

Research Technician, University of Alberta, Edmonton, Alberta. 1971-72.
Research Technician, Department of Physiology, University of Colorado School of Medicine, Denver, Colorado. 1968.
Research Technician, Department of Anatomy, University of Colorado School of Medicine, Denver, Colorado. 1967.
Field Technician, Department of Entomology, University of California, Berkeley. 1966.

Advisory Board Appointments

Audubon Canyon Ranch, Member, Board of Directors, 2009-present
Girls Scouts of America, Konocti Council. Member, Board of Directors. 1995-2001
Museo de Historia Natural de la Amazonia, Iquitos, Peru. Member, Advisory Board, 1991-present.
San Francisco YMCA: Point Bonita Outdoor and Conference Center. Member, Board of Directors, 1984-86.
San Francisco Zoological Society, Insect Zoo. Member, Advisory Board, 1978-95.

Professional Experience in Foreign Countries

ANTARCTICA (Antarctic Peninsula and offshore islands): Travel, fieldwork (2006)
ARGENTINA: Travel, fieldwork (2006)
CANADA: Residence, travel, graduate education, research, extensive field work (1970-1974); field work (1981, 1983, 1986, 1988, 1994, 1996, 1999, 2001, 2005, 2009, 2010).
COSTA RICA: Travel, research, museum work, field work (1995, 1998, 1999).
ENGLAND: Research at British Museum (Natural History), London (1980, 1996).
FALKLAND ISLANDS: Travel, fieldwork (2006).
FRANCE: Research at Muséum National d'Histoire Naturelle, Paris (2001, 2007).
FINLAND: Travel, research, museum work in Helsinki and vicinity (1995); travel and fieldwork in Lapland (2001).
ITALY: Travel, research, fieldwork in Florence and vicinity (1996).
MADAGASCAR: Fieldwork at Ranomafana National Park (1998, 2001).
NEW ZEALAND: Fieldwork on South Island (1993).
NORWAY: Travel and fieldwork in Finnmark (2001).
PAPUA NEW GUINEA: Fieldwork in Madang and Chibu Provinces (1989).
PEOPLE'S REPUBLIC OF CHINA: Research at the Institute of Zoology, Academia Sinica, Beijing (1998, 2000, 2002, 2004, 2005, 2006, 2007); fieldwork in Yunnan Province, Gaoligong Mountains (1998, 2000, 2002, 2004, 2005, 2006, 2007); fieldwork in Sichuan Province (2007); organizational meetings in Kunming, Yunnan Province (2002).
PERU: Fieldwork in Madre de Dios, Rio Tambopata (1984).
POLAND: Visit to Wroclaw University, consult with colleagues, fieldwork, Wroclaw (1980).
RUSSIA: Travel, research, museum work, fieldwork in the Irkutsk Region and Buryat Republic (1995); and travel and museum work in St. Petersburg (1995); travel and fieldwork in Kamchatka (2003).

SAN PIERRE & MIQUELON: Travel, field work (2001).
 SOUTH GEORGIA ISLAND: Travel, fieldwork (2006).
 SOUTH ORKNEY ISLANDS: Travel, fieldwork (2006).
 SOUTH SHETLAND ISLANDS: Travel, fieldwork (2006).
 SWITZERLAND: Research and museum work at Eidgenossische Technische Hochschule
 Entomologisches Institut, Zürich (1980).

Field Experience

- 2010 Gaspé Peninsula, Québec, CANADA—one week.
 Lake Tahoe area, El Dorado County, California—three days.
- 2009 Queen Charlotte Islands, British Columbia, Canada—two weeks.
 Northeastern U.S. (mountains of Vermont and New Hampshire) and southeastern Canada (Gaspé Peninsula, Québec, and Island of Newfoundland)—two weeks.
- 2008 Mountains of the western United States—seven weeks.
- 2007 Kodiak Island, Alaska—one week.
 North coastal California—one week.
 Yunnan and Sichuan Provinces, People's Republic of China—six weeks.
- 2006 Tierra del Fuego, Falkland Islands, South Georgia, South Orkney Islands, South Shetland Islands,
 Antarctic Peninsula and offshore islands—three weeks.
 Gaoligong Mountains, Tengchong County, Yunnan Province, People's Republic of China—four weeks.
 Alaska (Denali, Katmai, and Wrangel-St. Elias National Parks, Kodiak Island)—three weeks.
 Gaoligong Mountains, Gongshan County, Yunnan Province, People's Republic of China—four weeks.
- 2005 Gaoligong Mountains, Fugong County, Yunnan Province, People's Republic of China—four weeks.
 Tioga Pass area, Sierra Nevada, California—one week.
 Smoky Rang of the Sawtooth Mountains, Idaho—one week.
 Gaoligong Mountains, Baoshan & Tengchong Counties, Yunnan Province, People's Republic of China—five weeks.
- 2004 Gaoligong Mountains, Dulong River watershed, Gongshan County, Yunnan Province, People's Republic of China—five weeks.
 Gaoligong Mountains, Fugong County, Yunnan Province, People's Republic of China—six weeks.
- 2003 Kamchatka, Russian Far East and Aleutian Islands, Alaska—two weeks.
- 2002 Western Oregon and Washington—one week.
 Southcentral Alaska and Kodiak Island—one week.
 Gaoligong Mountains, Yunnan Province, People's Republic of China—seven weeks.
- 2001 Ranomafana National Park, Madagascar--four weeks.
 Lapland, Finland and Norway—two weeks.
 San Pierre & Miquelon, Labrador, Baffin Island, eastern Canada—one week.
- 2000 Gaoligong Mountains, Yunnan Province, People's Republic of China—six weeks.
 Trinity Alps, northern California—3 days.
- 1999 Cordillera de Tilaran, Alajuela, Costa Rica--ten days.
 Kluane Lake reion, Yukon Territory, Canada—three days.
- 1998 Ranomafana National Park, Madagascar--five weeks.
 Olympic Peninsula, Washington--two days.
 Gaoligong Mountains, Yunnan Province, People's Republic of China—six weeks.
- 1997 Northeastern Arizona--one week.
- 1996 Western North America--four weeks.
 Tuscany, Tuscan Apennines, Italy--one week.
- 1995 Guanacaste Conservation Area, Costa Rica--one week.
 Denali National Park, Central Alaska--two weeks.
 Southeastern Alaska--two weeks.
 Irkutsk Region (Lake Baikal area) and Buryat Republic (Eastern Sayan Mountains, Khamar-Daban Mountains), Russia—five weeks.

- 1994 Santa Cruz Island, Channel Islands, California--one week.
Southeastern and central Alaska--four weeks.
- 1993 South Island, New Zealand--three weeks.
- 1992 Southeastern Alaska and Pribilof and Aleutian Islands--six weeks.
- 1991 Hawaiian Islands (Kauai, Maui, and Oahu)--two and one-half weeks.
Denali National Park, Alaska--three weeks.
Southeastern Alaska--two weeks.
- 1990 Palos Verdes Peninsula, Los Angeles County, California--three days.
Denali National Park, Alaska--three weeks.
Southeastern Alaska and Queen Charlotte Islands of British Columbia--two weeks.
- 1989 Madang Province, Papua New Guinea--ten weeks.
Sierra Nevada, Ebbetts Pass area, California--one week.
Southeastern Alaska and Queen Charlotte Islands of British Columbia--two weeks.
- 1988 Vancouver area, British Columbia--one week.
Mountains of Idaho, western Montana, eastern Washington, and
southeastern British Columbia--two weeks.
- 1987 Mt. Lassen area, northeastern California--one week.
- 1986 Coastal British Columbia, from Victoria area north to Prince Rupert area, for faunal inventory--
three weeks.
Queen Charlotte Islands, British Columbia, for faunal inventory --one week.
Southeastern Alaska, Alexander Archipelago and coastal mainland, for faunal inventory--two
weeks.
- 1985 Northwestern California (Del Norte County)--two weeks.
Alaska, including Denali and Glacier Bay National Parks--two weeks.
- 1984 Mountains of central and eastern Arizona, New Mexico, and Colorado--one week.
Tambopata Reserve, Madre de Dios Province, Peru; work on project sampling insects in tropical
rainforest canopy--three weeks.
- 1983 Alaska, including Katmai, Mount McKinley, and Glacier Bay National Parks and other areas--
three weeks.
Queen Charlotte Islands, British Columbia, for faunal inventory of this archipelago--six weeks.
- 1982 Blue, Steens, and Wallowa Mountains of eastern Oregon--one week.
Trinity Alps of northern California--one week.
- 1981 Queen Charlotte Islands, British Columbia, for collecting and ecological study of potential
glacial refugia--two weeks.
Eastern Sierra Nevada for faunal survey--one week.
- 1980 Pacific Northwest, particularly the Olympic Mountains, Washington--two weeks.
Trinity Alps, California--one week.
Lower Silesia, Poland--three days.
- 1979 Lituya Bay, Glacier Bay National Monument, Alaska for collecting and ecological study of
glacial refugium--two and one-half weeks.
- 1978 Local collecting and field studies in northern California and Sierra Nevada--two weeks.
- 1977 Local collecting and field studies in northern California and Sierra Nevada--four weeks.
- 1976 Local collecting and field studies in northern California and Sierra Nevada--three weeks.
- 1975 Local collecting and field studies in northern California and Sierra Nevada--five weeks.
- 1974 Collecting and ecological survey in Cascade and Coast Mountains from northern California to
southern British Columbia--two months.
- 1973 Eastern North America, collecting in the following areas: Ozark Mountain system; cave regions
of Kentucky; Southern, Central, and Northern Appalachian Mountains; Catskill, Green, and
White Mountains of New England, Gaspé Peninsula and other areas in southeastern Canada--
two months.
Alaska, including interior Alaska, Mount McKinley National Park, Alaskan Peninsula, and
Aleutian Islands, for collecting and ecological studies--three weeks.
Mountain ranges of Montana, Wyoming, Colorado, Utah, Nevada, Idaho, and eastern Oregon and
Washington--two months.
- 1972 South Dakota, Wyoming, and Montana, collecting in isolated mountain ranges in these areas--
three weeks.
Mount Rainier National Park, Washington--five weeks.

- 1971 Western U.S. and southwestern Canada, concentrating on montane regions (collecting in British Columbia, Alberta, Montana, Wyoming, Colorado, Utah, Nevada, New Mexico, Arizona, California, Oregon, Washington, and Idaho)--five months.
- 1970 Mountain ranges of Alberta, British Columbia, Montana, and northern Idaho--one month.
- 1969 Mountain ranges of Colorado and eastern Utah--three weeks.
- 1968 Mountain ranges of Colorado--five weeks.
- 1967 Mountain ranges of Colorado--six weeks.
Northern and central California--four weeks.
- 1966 Northern and central California--six weeks.
- 1965 Northern and central California--four weeks.

Teaching Experience

Courses:

- University of California, Berkeley, California; Field Entomology: Beetles (ESPM 147-d), lecture, laboratory, and fieldwork; Spring semester, 2006; Spring semester, 2007; Spring Semester, 2008; Spring Semester, 2009; Spring Semester, 2010; Spring Semester, 2011
- California Academy of sciences, Docent Council, Biodiversity Training Course, lecturer, January, 2000; February, 2003; February, 2005
- California Academy of sciences, Docent Council, Life Through Time Training Course, lecturer; December, 1997.
- California Academy of Sciences, Summer Systematics Institute; lecture and laboratory on modern methods of phylogenetic (cladistic) analysis; June, 1995; June, 1996; June, 1997; June, 1998; June, 1999; June, 2000.
- California Academy of Sciences, Docent Council, Highlight Training Course; lecturer, 1994-95.
- Sonoma State University, Rohnert Park, California; General Entomology (Biology 355), lecture and laboratory (1 semester); 1986-87, 1990-91.
- California Academy of Sciences, Docent Council, Basic Training Course; lecturer, 1977, 1979, 1981, 1983, 1988, 1990, 1996.
- University of Alberta, Edmonton; Department of Entomology; laboratory instructor, Insect Taxonomy (2 semesters), 1970-71; laboratory instructor, Insects and Man (1 semester), 1971-72; instructor, Insect Taxonomy (2 semesters), 1972-73.
- Arapahoe Junior College, Littleton, Colorado; Science Department; laboratory instructor, General Zoology (1 semester), 1970.
- St. Thomas Seminary, Denver, Colorado; Science Department; instructor, Basic Biology/Human Anatomy and Physiology (1 semester) 1969-70.
- University of Colorado, Denver; Department of Biology; laboratory instructor, General Biology (1 semester), Cell Physiology (1 semester), 1969-70.

Field Courses and Natural History Tours:

- Headlands Center for the Arts:
Spacewalk: beetles and other insects at Marin Headlands, March, 2009
- INBIO:
Field workshop on field techniques for Coleoptera, Estacion Alberto Brenes, Cordillera de Tilaran, Alajuela, Costa Rica, June-July, 1999.
- Denali National Park Wilderness Centers, Ltd.:
Arctic and Alpine Environments; June, 1991; June 1995.
- Point Reyes Field Seminars:
Close Encounters with Insects, Point Reyes National Seashore; August, 1984; April, 1985; September, 1985; April, 1986; October, 1986; April, 1987; October, 1987; July, 1989; March, 1990.
- California Academy of Sciences:
Alaska by Air, June-July, 2006
Antarctica, South Georgia, and the Falkland Islands, January, 2006
Alaska in Winter, March-April, 2004
Russia and Alaska: from Kamchatka to Kenai, June-July, 2003
Arctic Odessey, Exploring Northeastern Canada, August, 2001

Lapland: Exploring Europe's Arctic Wilderness, June, 2001
 Maritime Provinces of Canada and Coastal Maine, August-September, 1997.
 The lowdown on beetles, November, 1994.
 Sea Kayaking, Myriad Islands and Chichagof Island, Alaska, July, 1994.
 Biogeography of Santa Cruz Island, April, 1994.
 Sea Kayaking, Kenai Fiords National Park, August, 1992.
 Undiscovered Alaska (Southwestern, southeastern, and central Alaska), July, 1992;
 July-August, 1994; July, 1998; June-July, 2002.
 Southeastern Alaska, August-September, 1986; August, 1989; September, 1990;
 August, 1991; June 2007.
 Alaska Overland, June-July, 1983; June, 1985; June-July, 1988; July-August, 1992.
 The Great Bug Hunt, May, 1983.
 Budding Naturalists at Pepperwood, Sonoma County, California, May, 1982.
 Exploring San Bruno Mountain, San Mateo County, California, May, 1982; March,
 1990.
 Natural History of Ring Mountain, Marin County, California, May, 1981.

Graduate Students:

Traci L. Gryzmala, Department of Environmental Science Policy and Management, University of California, Berkeley, Ph.D., in progress. Orals committee member.
 Meghan Culpepper, Department of Biology, San Francisco State University, M.A., in progress. Major advisor, thesis committee.
 Jennifer Jacobs, Department of Biology, San Francisco State University, M.A., 2009. Member, thesis committee.
 Sean D. Schoville, Department of Environmental Science Policy and Management, University of California, Berkeley, Ph.D., 2009. Co-major advisor, dissertation committee.
 Tara Cornelisse, Department of Biology, San Francisco State University, M.A., 2008. Member, thesis committee.
 Roberta L. Brett, Department of Biology, San Francisco State University, M.A., 2007. Major advisor, thesis committee.
 Sarah D. Weigel, Department of Biology, San Francisco State University, M.A., 2003. Major advisor, thesis committee.
 Paul S. Marek, Department of Biology, San Francisco State University, M.A., 2002. Major advisor, thesis committee.
 Emily S. Elsom, Department of Biology, San Francisco State University, M.A., 2002. Major advisor, thesis committee.
 Michael S. Caterino, Department of Entomology, University of California, Berkeley, Ph.D., October, 1998. Member, dissertation committee.
 Thomas Clarke, Department of Biology, University of Victoria, British Columbia, M.Sc. August, 1998. Advisor, thesis committee, and external examiner for thesis defense.
 Sean T. O'Keefe, Department of Entomology, University of California, Berkeley, Ph.D. January, 1998. Member, dissertation committee.
 Eric Riddick, Department of Entomology, University of California, Berkeley, Ph.D. June, 1994. Collaborator, dissertation project.
 John M. Collier, Department of Biology, Sonoma State University, M.A., May, 1994. Member, thesis committee.
 Pamela Roscoe, Department of Biology, Sonoma State University, M.A., June, 1988. Member, graduate committee.
 Gay C. Hunter, Department of Biology, San Francisco State University, M.A., June, 1986. Member, thesis committee.
 Francis E. Cave, Department of Biology, San Francisco State University, M.A., December, 1983. Member, thesis committee.

Undergraduate Interns:

Simon Schreier, Biology Department, Brandeis University, New York City; June-August, 2009; Summer Systematics Institute Intern.

Paul S. Marek, Department of Biology, Loyola University, Chicago; June-August, 1999; Summer Systematics Institute Intern.
Kathleen W. Knavel, Department of Biology, University of Wisconsin, Madison; June-August, 1998; Summer Systematics Institute Intern.
Michelle L. Schwengel, Department of Entomology, University of Wisconsin, Madison; June-August, 1997; Fellows Intern in Biological Illustration.
Heather A. Reed, Department of Biology, University of California, Santa Cruz; June-August, 1996; Fellows Intern in Biological Illustration.
Portia R. Rollings, Department of Biology, University of California, Santa Cruz; March-May, 1996; intern in biological illustration.
Katharine Decker Johnson, Department of Biology, University of California, Santa Cruz; March-May, 1996; intern in biological illustration.
Denise A. Piechnik, Department of Biology, San Francisco State University; June-August, 1995; Summer Systematics Institute Intern.

Curriculum Development:

Member curriculum development team for full-year high school science course entitled "Voyages Through Time", NSF sponsored joint project between California Academy of Sciences, SETI Institute, National Aeronautics and Space Administration, and San Francisco State University. April, 1998-present.

OTHER PROFESSIONAL ACTIVITIES

Membership in Professional and Scientific Societies:

American Entomological Society (1995 to present)
Association of Pacific Systematists (1984 to present)
Asociación Europea de Coleopterología (1986 to present)
Biosystematists (1974 to present)
Coleopterists Society (1969 to present)
Entomological Society of Alberta (1970-74)
Entomological Society of America (1969 to present)
Entomological Society of Canada (1970-75)
Pacific Coast Entomological Society (1965 to present)
Society of Systematic Zoology (1972-80)

Service to Professional Societies:

American Society of Zoologists:
Local Arrangements Committee for Annual Meeting, San Francisco, 1988.
Association of Systematics Collections:
Member Achievement Award Committee, 1986.
Member Systematics and the Law Committee, 1997-99
Coleopterists Society:
Nominating Committee Member, 1978, 1983, 1994.
Executive Council Member, 1978-1981, 1989-1992, 2001-2002.
President-elect, 1981.
President, 1982.
Past-President, 1983.
Entomological Society of America:
Acting Secretary, Section A, 1975-76.
Secretary, Section A, 1977-78.
Vice-Chairman, Section A, 1978-79.
Chairman, Section A, 1979-80.
Committee on Systematics Resources (standing), Member, 1980-84.
Committee on Donations of Entomological Specimens and the IRS (*ad hoc*), Member, 1986-87.
Thomas Say Award Committee (standing), Member, 1989-91.

Pacific Coast Entomological Society:

Historical Committee (standing), Member, 1976-present; Chairman 1976-83, 1993-present.
Publications Committee (standing), Member, 1979-83.
Executive Council, Member, 1976-83, 1993-present.
President-elect, 1980.
President, 1981.
Past-president, 1982.

Society of Systematic Zoology:

Nominating Committee, Member, 1976-78.
Executive Council, Member, 1979-83.

Professional Meetings, Congresses and Conferences Attended:

Bellfest 2010: A Festschrift in Tribute to the Scientific Work of Ross and Joyce Bell. Burlington, Vermont, June 2010.
Biodiversity, Human Wellbeing and Climate Change—What do we know and what do we need to know? San Francisco, California. April, 2010.
Pacific Climate Workshop, Asilomar, California. April, 2009.
Natural Sciences Collection Alliance, Annual Meeting, 2003, Berkeley, California.
Entomological Collections Network, Annual Meeting, 1999, Athens, Georgia; 2001, San Diego, California; 2007, San Diego, California; 2008, Reno, Nevada; 2010, San Diego, California.
Willie Hennig Society, Annual Meeting, Washington, D.C., October 1997.
Symposium on Insect Biodiversity and Conservation in Pacific Northwest Forests. Oregon State University, Corvallis, November, 1996.
XX International Congress of Entomology, Florence, Italy, August, 1996.
Third International Symposium of Carabidology, Helsinki, Finland, September, 1995.
American Society of Zoologists, Annual Meeting, San Francisco, California, December, 1988.
XVIII International Congress of Entomology, Vancouver, British Columbia, July, 1988.
Association of Systematics Collections, Annual Meeting; 1985, Los Angeles, California; 1986, Victoria, British Columbia; 1987, Gainesville, Florida.
American Association for the Advancement of Science, Pacific Branch, Annual Meeting, 1984, San Francisco, California; 2003, San Francisco, California.
International Congress of Systematic and Evolutionary Biology, II. Vancouver, British Columbia, July, 1980. 13th Numerical Taxonomy Conference, Cambridge, Massachusetts, October, 1979.
XVth International Congress of Entomology, Washington, D.C., August, 1976.
First International Symposium of Carabidology, Washington, D. C. August, 1976.
International Congress of Systematic and Evolutionary Biology, I. Boulder, Colorado, August, 1973.
Entomological Society of Canada, Annual Meeting, 1972, Montreal, Québec; 1973, Banff, Alberta; 1978, Ottawa, Ontario; 1982, Toronto, Ontario.
Entomological Society of Alberta, Annual Meeting, 1971, Kananaskis, Alberta; 1973, Banff, Alberta.
Entomological Society of America, Annual Meeting, 1969, Chicago, Illinois; 1972, Montreal, Quebec; 1975, New Orleans, Louisiana; 1977, Washington, D.C.; 1978, Houston, Texas; 1979, Denver, Colorado; 1980, Atlanta, Georgia; 1981, San Diego, California; 1982, Toronto, Ontario; 1984, San Antonio, Texas; 1985, Hollywood, Florida; 1986, Reno, Nevada; 1987, Boston, Massachusetts; 1988, Louisville, Kentucky; 1989, San Antonio, Texas; 1991, Reno, Nevada; 1992, Baltimore, Maryland; 1994, Dallas, Texas; 1999, Atlanta, Georgia; 2001, San Diego, California; 2005, Fort Lauderdale, Florida; 2007, San Diego, California; 2008, Reno, Nevada; 2010, San Diego, California.
Coleopterists Society, Annual Meeting, 1969, Chicago, Illinois; 1972, Montreal, Québec; 1973, Boulder, Colorado; 1975, New Orleans, Louisiana; 1976, Washington, D.C.; 1977, Washington, D.C.; 1978, Houston, Texas; 1979, Denver, Colorado; 1980, Atlanta, Georgia; 1981, San Diego, California; 1982, Toronto and Ottawa, Ontario; 1984, San Antonio, Texas; 1985, Hollywood, Florida; 1986, Reno, Nevada; 1987, Boston, Massachusetts; 1988, Louisville, Kentucky; 1989, San Antonio, Texas; 1991, Reno, Nevada; 1992, Baltimore, Maryland; 1994, Dallas, Texas; 1999, Atlanta, Georgia; 2001, San Diego, California; 2005, Fort Lauderdale, Florida; 2007, San Diego, California; 2008, Reno, Nevada; 2010, San Diego, California.

Symposia Organized:

- "Biogeography of the Carabidae of Mountains and Islands." XVIII International Congress of Entomology, Vancouver, British Columbia. July, 1988. [Co-organizer with G. R. Noonan, J. K. Liebherr, and N. E. Stork]
- "Origins of the North America Insect Fauna". Entomological Society of America/ Entomological Society of Canada/ Entomological Society of Ontario Joint Annual Meeting, Toronto, Ontario. November, 1982. [Co-organizer with J. A. Downes]
- "The Baron Maximilien de Chaudoir (1816-1881): A symposium to honor the memory of a great coleopterist during the centennial of his death". The Entomological Society of America Annual Meeting, San Diego, California. December, 1981. [Co-organizer with G. E. Ball and T. L. Erwin]

Seminars, Lectures, Papers and Posters Presented:

- What the beetles have to say about climate change. American Association of University Women, American Canyon, California, October, 2010.
- Effects of climate change on the distribution of montane insects in western North America, with examples from predatory ground-beetles of genus *Nebria* (Insecta: Coleoptera: Carabidae). Friends of San Pedro Valley Park, Pacifica, California. May, 2010.
- Systematic Studies of the Genus *Nebria* (Insecta: Coleoptera: Carabidae) and Their Implications for Biogeography, Ecology, Evolution, and Climate Change. Biodiversity Training Course, Docent Council, California Academy of Sciences, San Francisco, California. October, 2009.
- Beetles, biogeography, evolution and climate change. Gwaii Haanas Speaker Series, Haida Heritage Center and Parks Canada, Skidegate, British Columbia, Canada, July, 2009.
- Effects of climate change on the distributions of predatory ground-beetles of genus *Nebria* (Insecta: Coleoptera: Carabidae) in western North America. Pacific Climate Workshop, Asilomar, California. April, 2009.
- The California Academy of Sciences: a new home for its growing collections. Entomological Collections Network Annual Meeting, San Diego, California. December, 2007.
- A visit to Lituya Bay and the 'land of the ocean mists' (Alaska). Lindblad Expeditions cruise, Alaska. June, 2007.
- Systematic Studies of the Genus *Nebria* (Insecta: Coleoptera: Carabidae) and Their Implications for Biogeography, Ecology, and Evolution. Institute of Zoology, Chinese Academy of Sciences, Beijing, September, 2006.
- Systematic Studies of the Genus *Nebria* (Insecta: Coleoptera: Carabidae) and Their Implications for Biogeography, Ecology, and Evolution. Kunming Institute of Zoology, May 2006.
- Biodiversity inventory of the Gaoligong Mountains of western Yunnan, China: an entomologist's perspective. Members monthly meeting, Pacific Coast Entomological Society. March, 2006.
- Life Abounds in Yunnan Province--Biodiversity inventory of the Gaoligong Mountains of western Yunnan, China: an entomologist's perspective. Members Monthly Meeting. California Academy of Sciences, San Francisco, California. February, 2006.
- Adaptations of insects to life at high latitudes and altitudes. Zeagrem Expeditions cruise, Antarctica, South Georgia and the Falkland Islands. January, 2006.
- Terrestrial arthropods of Antarctica. Zeagrem Expeditions cruise, Antarctica, South Georgia and the Falkland Islands. January, 2006.
- Biodiversity inventory of the Gaoligong Mountains of western Yunnan Province, China--an entomologist's journeys of adventure and discovery. Biology Forum, Santa Rosa Junior College, Santa Rosa, California. October, 2005.
- Biodiversity inventory of the Gaoligong Mountains, western Yunnan, China. Biodiversity Training Course, Docent Council, California Academy of Sciences, San Francisco, California. February, 2005.
- The Aleutian Islands as a dispersal route across the North Pacific. Clipper Expedition Cruise, Russia to Alaska, July, 2003
- Bears—black, brown and white. Clipper Expedition Cruise, Russia to Alaska, June, 2003
- Planning for research in the 21st Century at a large natural history museum. Symposium: Museums and other institutions of natural history: past, present, and future. American Association for the

- Advancement of Science, Pacific Branch, Annual Meeting, San Francisco, California. June, 2003.
- Systematic studies of the genus Nebria and other carabid beetles and their implications for biogeography, ecology, evolution, and conservation. Entomology Seminar Series, University of California, Berkeley. April, 2003.
- A biodiversity inventory of the Gaoligong Mountains, western Yunnan, China. Biodiversity Training Course, Docent Council, California Academy of Sciences, San Francisco, California. February, 2003.
- Beetles—The Chosen Many. Wonders of Sciences Lecture Series, Fromm Institute for Lifelong Learning, San Francisco, California. February, 2002.
- A new genus and species of subtribe Anillina (Coleoptera: Carabidae: Bembidiini) from caves in the Sierra Nevada of California. [poster] Entomological Society of America Annual Meeting, San Diego, California. December, 2001.
- Research on Carabid beetles. Biodiversity Training Course, Docent Council, California Academy of Sciences, San Francisco, California. January, 2000.
- When the party's over—post-grant concerns for collections improvements. Entomological Collections Network Annual Meeting, Athen, Georgia, December, 1999.
- Basic faunal inventories: prerequisites for conservation in Madagascar. Wildlife Conservation Society - California Academy of Science Lecture Series, San Francisco, California. April, 1999.
- Madagascar: in search of beetles. Biology Forum, Santa Rosa Junior College, Santa Rosa, California. April, 1999.
- Madagascar Odyssey. . Members Monthly Meeting. California Academy of Sciences, San Francisco, California. January, 1999.
- Colonization of the land by invertebrates. Life Through Time Training Course, Docent Council, California Academy of Sciences, San Francisco, California. December, 1997.
- Bay Area beetles--bountiful, beautiful, and bizarre. San Francisco Natural History Lecture Series, Randall Museum, San Francisco, California. December, 1997.
- Introduction to phylogenetic analysis. Summer Systematics Institute, California Academy of Sciences, San Francisco, California. June, 1997.
- Investigation of phylogenetic relationships among basal grade Carabidae--work in progress. Symposium: Phylogeny and classification of Caraboidea. XX International Congress of Entomology, Florence, Italy. August, 1996.
- Introduction to phylogenetic analysis. Summer Systematics Institute, California Academy of Sciences, San Francisco, California. June, 1996.
- In search of Old World relatives of Nearctic carabid beetles in central Siberia, Lake Baikal region. Pacific Coast Entomological Society, San Francisco, California. April 1996.
- Mountains and insects. Docent Council, California Academy of Sciences, San Francisco, California. April, 1996.
- In search of beetles in the Pacific Northwest. Adult and Family Education Program, California Academy of Sciences, San Francisco, California. March, 1996.
- Biogeography of California. Docent Council, California Academy of Sciences, San Francisco, California. January, 1996.
- Phylogenetic relationships of genus Pelophila Dejean to other basal grade Carabidae (Coleoptera). Third International Symposium of Carabidology, Helsinki, Finland. September, 1995.
- Introduction to phylogenetic systematics. Summer Systematics Institute, California Academy of Sciences, San Francisco, California. June, 1995.
- Conserving biodiversity: "Endangered Species" and other strategies. Teacher Workshop, California Academy of Sciences, San Francisco, California. November, 1994.
- Life as a field biologist. Justin-Siena High School, Napa, California. November, 1994.
- The lowdown on beetles. Adult Education Program, California Academy of Sciences, San Francisco, California. November, 1994.
- Biosystematics: what is it and how does it differ from other sciences? Academy Council, California Academy of Sciences, San Francisco, California. October, 1994.
- Endangered habitats: the rest of the story. Docent Council, California Academy of Sciences, San Francisco, California. October, 1994.
- Plants and insects: partners through time. Strybing Arboretum Society, San Francisco, California. October, 1994.

Phylogenetic studies of predaceous ground-beetles, genus Nebria Latreille, and their biogeographic implications in western North America. Entomology Seminar Series, University of California, Berkeley. April, 1994.

Collecting the undisturbed Hawaii. Members monthly meeting, Pacific Coast Entomological Society. September, 1992.

Carabid beetles and evolutionary Biology. Graduate Seminar Series in Evolutionary Biology, Stanford University, Palo Alto, California. May, 1992.

Vicariance patterns in the Nebria (Coleoptera: Carabidae) fauna of western North America and their biogeographic and evolutionary implications. Symposium: Historical biogeography of western North American insects. Entomological Society of America, Reno, Nevada. December, 1991.

In search of beetles in the 'Land of the Unexpected'--Papua New Guinea. Members Monthly Lecture Series, California Academy of Sciences, San Francisco, February, 1990.

Beetle collecting in Papua New Guinea. Coleopterists Society Annual Meeting, San Antonio, Texas. December, 1989.

Insects: marvels of design. Center for Learning in Retirement, University of California Extension Center, San Francisco, California. July 1989.

Carabid beetles of New Guinea. Sonoma State University, Department of Biology, Biology Colloquium, Rohnert Park, California. May, 1989.

Relationship between islandic and mainland ground beetle (Coleoptera: Carabidae) faunas of the Pacific Coast of North America. Symposium: Biogeography of the Carabidae of mountains and islands. University of British Columbia, Vancouver, British Columbia, July, 1988

Speciation and differentiation in relation to habitat in Nearctic Nebria. University of Kansas, Department of Systematics and Ecology, Lawrence, Kansas. March, 1988.

The carabid beetle fauna of the Queen Charlotte Islands--its composition, affinities, and origins. University of Kansas, Department of Entomology, Lawrence, Kansas. March, 1988.

Pleistocene biogeographic effects on alpine ground beetles in western North America. Blankenbaker Lecturer, Montana State University, Departments of Biology and Entomology, Bozeman, Montana. March, 1987.

Biotic history of the Queen Charlotte Islands, British Columbia, as shown from a study of the present insect fauna. Blankenbaker Lecturer, Montana State University, Departments of Biology and Entomology, Bozeman, Montana. March, 1987.

Ground beetle (Carabidae) fauna and biotic history of the Pacific Northwest. Adult Education Program, California Academy of Sciences, San Francisco, California. November, 1986.

Systematic studies of insects and their role in contemporary science. Fellows Biology Forum for High School Teachers, California Academy of Sciences, San Francisco, California. April, 1986.

The ground-beetle (Coleoptera: Carabidae) fauna of the Queen Charlotte Islands and its present affinities and origins. Symposium: Queen Charlotte Islands International Symposium. University of British Columbia. Vancouver, British Columbia. August, 1984.

Entomology at the California Academy of Sciences. Rotary Club of Petaluma, California. June, 1984.

Field research in the Queen Charlotte Islands. Friend's of the Academy, San Francisco, California. January, 1984.

Insects: a different perspective. Petaluma Garden Club, Petaluma, California. October, 1983.

A survey of the carabid beetles of the Queen Charlotte Islands, British Columbia. California Academy of Sciences/San Francisco State University, Internship in Museum Sciences at Department of Entomology, San Francisco. September-November, 1983.

Origins of the present insect fauna of the Pacific Northwest: evidence from the study of carabid beetles. Oregon State University, Department of Entomology, Seminar Series Corvallis, Oregon. May, 1983.

The insect fauna of the Pacific Northwest Coast: present patterns and affinities and their origins. Syposium: Origins of the North American insect fauna. Entomological Society of America/ Entomological Society of Canada. Toronto, Ontario. November, 1982.

Systematic studies on carabid beetles: their biogeographic uses an importance. University of Nevada, Department of Biology, Seminar Series, Reno, Nevada. October, 1982.

Cladistics and the study of Nebria (Coleoptera: Carabidae). California Academy of Sciences/San Francisco State University, Graduate Seminar Series in Systematics, San Francisco, California. September, 1982.

Entomological exploration of the Queen Charlotte Islands, British Columbia. Members monthly meeting, Pacific Coast Entomological Society. December, 1981.

Notioskasiini--a new tribe of Carabidae (Coleoptera) from southeastern South America. Symposium: The Baron Maximilien de Chaudoir (1816-1881): A symposium to honor the memory of a great coleopterist during the centennial of his death. Entomological Society of America, Annual Meeting, San Diego, California. December, 1981.

Amerizus, its status as a bembidiine (Coleoptera: Carabidae: Bembidiini). Symposium: The Baron Maximilien de Chaudoir (1816-1881): A symposium to honor the memory of a great coleopterist during the centennial of his death. Entomological Society of America, Annual Meeting, San Diego, California. December, 1981.

Entomology at the Academy. Members Monthly Meeting. California Academy of Sciences, San Francisco, California. November, 1980.

Insect portraits. Burlingame Country Club, Hillsborough, California. November, 1980.

Carabid beetles of Lituya Bay, Alaska, region and their zoogeographic significance. Coleopterists' Conference at the International Congress of Systematic and Evolutionary Biology, II, Vancouver, British Columbia. July, 1980.

Contemporary methods of cladogram construction. San Francisco State University, Department of Biology, San Francisco, California. March, 1980.

Insect safari. Bohemian Club, San Francisco, California. January, 1980.

Studies at Lituya Bay: a glacial refugium". Members monthly meeting, Pacific Coast Entomological Society. November, 1979.

Systematic and ecological studies on the boreo-montane ground beetle genus, Nebria. Sonoma State University, Department of Biology, Biology Colloquium, Rohnert Park, California. September, 1979.

Inside one cladist's "black box". Biosystematist monthly meeting, San Francisco, California. March, 1979.

Systematic value of the female internal reproductive system of Nebria ground beetles (Coleoptera: Carabidae). Symposium: Systematic value of arthropod internal structure. Entomological Society of America, Annual Meeting, Houston, Texas. November, 1978

Insects of western Canada, with special reference to certain Carabidae (Coleoptera): present distribution patterns and their origins. Symposium: Temporal and spatial changes in the Canadian insect fauna. Entomological Society of Canada. Ottawa, Ontario. August, 1978.

Hennigian phylogenetics: principles, methods, and uses in contemporary systematics. Symposium: Biosystematics in Agriculture. Beltsville Symposium II. U. S. Department of Agriculture, Beltsville, Maryland. May, 1977.

Investigations on present climatic refugia in North America through studies on the distribution of carabid beetles: concepts, methods, and prospectus. Symposium: First international symposium of carabidology. Smithsonian Institution. Washington, D.C. August, 1976.

Rates of taxonomically significant differentiation in relation to geographic isolation and habitat: examples from a study of the Nearctic Nebria fauna. Symposium: First international symposium of carabidology. Smithsonian Institution, Washington, D.C. August, 1976.

A systematic study of the carabid beetle genus Nebria Latreille in the Nearctic Region. Entomology Graduate Seminar Series, University of Alberta. January, 1974.

Nebria desolata Kavanaugh: its distribution, phylogenetic relationships, and evolutionary history. Entomology Graduate Seminar Series, University of Alberta. March, 1973.

Discussion. Symposium: Entomology and education. Department of Entomology, University of Alberta, Edmonton. May, 1972.

Biology and distribution of beetles of the family Amphizoidae. Entomology Graduate Seminar Series, University of Alberta. March, 1972.

Altitudinal zonation in Nearctic Nebria. Entomology Graduate Seminar Series, University of Alberta. March, 1971.

Research Featured in Popular Media:

Collecting bugs is his specialty. Article by Yovanna Bieberich, Petaluma Argus-Courier, February 25, 2010. <http://www.petaluma360.com/article/20100225/COMMUNITY/100229694>

Wild Neighbors: Beetles, Mites, and Other New Faces of 2009. Column by Joe Eaton,. The Berkeley Daily Planet, December 30, 2009. <http://www.berkeleydailyplanet.com/issue/2009-12-30/article/34415?headline=Wild-Neighbors-Beetles-Mites-and-Other-New-Faces-of-2009>

Chasing Beetles—Finding Darwin. PBS TV station KQED, 26-minute video presentation in the *Quest* series, February 10, 2009. <http://www.kqed.org/quest/television/chasing-beetles-finding-darwin2>

What Beetles Know About Climate Change. ABC7 News, a 4 minute video presentation. November 20, 2008. <http://abclocal.go.com/kgo/video?id=6515948>

Beetles on the Rise, by Stephanie Stone. *Live from the California Academy of Science*, Winter 2008, pp. 8-13. http://www.calacademy.org/docs/live_magazine/2008_Winter_Kavanaugh_article.pdf

California's Glaciers: The Aeolian Zone, by Kathleen M. Wong. *California Wild*, Fall 2005, pp. 10-12. <http://research.calacademy.org/calwild/2005fall/stories/aeolian.html>

Public Media Interviews:

Beetles near and far. Hot Tech/Cool Science, KWMR, 90.5 FM, Point Reyes Station, Marin County, California; one hour, interviewed by Julie Motz, 29 August 2009.

Workshop Presentations:

California Academy of Sciences, Seventh Annual Teachers Workshop, San Francisco, California. January, 1990.

Editorial Board Memberships:

Editorial Board, Pacific Discovery, California Academy of Sciences, 1987-89.

Editorships and Editorial Board Memberships for Special Publications:

"Taxonomy, phylogeny, and zoogeography of beetles and ants: a volume dedicated to the memory of Philip J. Darlington, Jr. 1904-1983"; member of Editorial Board (G. E. Ball, editor); Dr. W. Junk Publishers, Dordrecht, xiii + 514 pp., published in 1985.

"The Collected LeConte Papers on Entomology", a ten volume series containing the collected works of J. L. LeConte; co-editor with A. R. Hardy and F. G. Andrews; published by Scarabaeus Associates, Sacramento, California. Volume I (1844-1850), xiii + 481 pp., published in 1982; Volume II (1850-1854), xiii + 549 pp., published in 1983; Volume III (1855-1862), xiii + 552 pp., published in 1984; Volume IV (1862-1868), viii + 579 pp., published in 1984; Volume V (1869-77), viii + 539 pp., published in 1985; Volume VI (1878-1884), viii + 514 pp., published in 1985; Volume VII, (LeConte and Horn, 1876, J. E. LeConte, 1824-1859), iv + 563 pp., published in 1986; Volume VIII (LeConte and Horn, 1883), xii + xxxviii + 567 pp., published in 1987; Volume IX (LeConte, 1847-1853), iv + 320 pp., published in 1989; Volume X (1856-1859), iv + 370 pp., published in 1995.

Special Review Committees, Workshops, and Conferences:

National Science Foundation, Division of Environmental Biology, Systematic and Population Biology Program, Doctoral Dissertation Improvement Grants Review Panel, Washington, D.C., March 5-7, 2003.

Instituto Nacional de Biodiversidad, Coleoptera of Five Conservation Areas of Costa Rica, Workshop to Design Inventory Strategy, Heredia de Santo Domingo, Costa Rica, June 15-18, 1998.

Workshop on Federal and International Scientific Permits. San Diego Natural History Museum, January, 1997.

Instituto Nacional de Biodiversidad, All Taxon Biotic Inventory (ATBI) of Guanacaste Conservation Area, Organizational Workshop for Coleoptera Taxonomic Working Group (TWIG), Heredia de Santo Domingo, Costa Rica, April 27 - May 7, 1995.

National Science Foundation, Division of Biotic Systems and Resources, Systematic Biology Program, Biotic Survey and Inventory Review Panel, Washington, D.C., February 2-5, 1992.

National Science Foundation, Division of Biotic Systems and Resources, Systematic Biology Program, Biotic Survey and Inventory Review Panel, Washington, D.C., January 12-14, 1991.
Association of Systematics Collection, Workshop on Biological Collection Resources for the 1990's, Washington, D.C., October 5-7, 1988.
Smithsonian Institution, U. S. National Museum of Natural History, BIOLAT Program External Review Committee, Washington, D.C., December, 1987.
Los Angeles County Museum of Natural History, Entomology Section External Review Committee, Los Angeles, California, January, 1987.
Long Term Ecological Research Steering Committee, Soil Arthropods Workshop and Conference, Corvallis, Oregon. May, 1983.
Association of Systematics Collections, National Conference on Voucher Specimen Management, College Park, Maryland. October, 1981.
Smithsonian Institution, U. S. National Museum of Natural History, Department of Entomology, External Review Committee, Washington, D. C.. March, 1981.

Selection and Review Committees:

California Academy of Sciences, San Francisco:
Selection committee for new Director of Research; December, 1994 - July, 1995.
Selection committee for new Director of Finance, April, 1992.
Selection committee for new Executive Director; July-December, 1988.
American Museum of Natural History, New York:
Selection of new curator, Department of Entomology. April, 1986.
California State Department of Food and Agriculture, Laboratory Services, Promotion Examination, Qualifications Appraisal Panel, Public Member. July, 1985.

Referee/Reviewer for Grant Proposals:

California Academy of Sciences
Hawaii Bishop Research Institute
Los Angeles County Museum of Natural History
National Geographic Society
National Science Foundation
Smithsonian Institution

External Reviewer for Post-doctoral Fellowships and Awards:

Foundation of Research Development, Pretoria, South Africa
Natural Sciences and Engineering Research Council of Canada
Smithsonian Institution, U. S. Museum of Natural History

Manuscript Referee:

American Naturalist
Annals of the Carnegie Museum of Natural History
Annual Review of Ecology and Systematics
Annual Review of Entomology
Arctic
Arctic and Alpine Research
Biotropica
BMC Evolutionary Biology
Bulletin of the Museum of Comparative Zoology
Bulletin of the Southern California Academy of Sciences
California Wild
Canadian Entomologist
Canadian Journal of Zoology
Coleopterists Bulletin
Cornell University Press
Ecoscience
Entomological News

Fauna of New Zealand Series
Fieldiana
International Journal of Insect Morphology and Embryology
Invertebrate Systematics
Journal of Biogeography
Journal of the New York Entomological Society
Koleopterologische Rundschau
Molecular Phylogenetics and Evolution
Memoirs of the California Academy of Sciences
Milwaukee Public Museum Contributions in Biology and Geology
Quaestiones Entomologicae
Pacific Discovery
Pan-Pacific Entomologist
Physiological Zoology
Proceedings of the Academy of Natural Sciences of Philadelphia
Proceedings of the California Academy of Sciences
Systematic Zoology
Transaction of the San Diego Society of History Museum
University of California Press
Wasmann Journal of Biology
ZooKeys
Zootaxa

Script Referee, Technical Consultant:

National Geographic Television
Strybing Arboretum, San Francisco Botanical Gardens

GRANTS AND OTHER AWARDS AND HONORS

Grants and other awards (total of \$4,864,362 awarded as follows):

Facilities Grants:

- Pending*. 2011-16. \$77,400. Advancing Digitization of Biological Collections (ADBC) Program, National Science Foundation (for "Digitization TCN: Collaborative Research: Plants, Herbivores, and Parasitoids: A Model System for the study of Tri-Trophic Associations"). [Subawardee]
- 1991-96. \$1,000,713. BSR-9024215. Biological Research Resources Program, National Science Foundation (for "Support for the Improvement, Care, and Use of the Entomological Collection at the California Academy of Sciences"). [Principal investigator]
- 1980-85. \$355,000. DEB-8015518. Biological Research Resources Program, National Science Foundation (for "Support for the Systematic Collections of the Department of Entomology"). [Principal investigator]
- 1977-80. \$240,343. DEB-7702680. Biological Research Resources Program, National Science Foundation (for "Support for the Care and Use of Systematic Collections of the Department of Entomology"). [Co-principal investigator with P. H. Arnaud, Jr.]

Equipment Grants:

1983. \$81,219. BSR-8304933. Biological Research Resources Program, National Science Foundation (for "A Scanning Electron Microscope and Additional Light Microscope Accessories for the California Academy of Sciences"). [Co-principal investigator with W. J. Pulawski]

Research Fellowships:

1989. \$9,000. Christensen Research Institute Fellowship (support for self and two colleagues for research in Madang Province, Papua New Guinea, February 24 through April 30, 1989).

Research Grants:

- Pending*. 2011-14. \$125,447. Systematic Biology Biotic Surveys and Inventory Program National Science Foundation (for "Collaborative Research: Survey Of Coleoptera And Arachnida In The Chilean And The Argentinean Temperate Rain Forests". [Co-Principal investigator]
- 2009 \$2,857. Lindsay Fund for Research, California Academy of Sciences (support for field studies in the Queen Charlotte Islands, British Columbia, Canada).
- 2008-10. \$200,000. John D. and Catherine T. MacArthur Foundation, "The Biodiversity of the Gaoligongshan Project: Broad Spectrum Biodiversity Inventory of the Gaoligongshan". [Principal Investigator, with J. Miller as Co-Principal Investigator].
- 2006-08. \$11,400. Solano County Endangered Species Conservation Program, "Distribution, Life History, and Habitat Characterization of the Threatened Delta Green Ground Beetle at the Jepson Prairie (Solano County, CA)". [Co-principal investigator with R. A. Arnold]
- 2002-03. \$35,000. National Geographic Society, "Biotic Survey of the Gaoligongshan, a Biodiversity Hotspot in China". 2002–2003PI. [Co-principal investigator with P. W. Fritsch, N. Jablonski, and Z. L. Dao].
- 2002–07. \$2,403,296. DEB-0103795. National Science Foundation Biotic Surveys and Inventories, "Biotic Survey of the Gaoligongshan, a Biodiversity Hotspot in Western Yunnan, China". [Co-principal investigator, 2006-07; P. W. Fritsch, PI]
2000. \$2,430. In-House Research Fund, California Academy of Sciences (partial support for fieldwork in the Gaoligongshan, Yunnan Province, China for self and Chinese colleague).
1998. \$2,020. In-House Research Fund, California Academy of Sciences (support for molecular sequencing, of nebrine taxa for phylogenetic analysis of supertribe Nebriinae).
1996. \$2,185. In-House Research Fund, California Academy of Sciences (support for participation in symposium, "Phylogeny of Carabidae", at XX International Congress of Entomology, Florence, Italy).
1995. \$1,141. In-House Research Fund, California Academy of Sciences (support for participation in Third International Symposium on Carabidology, Helsinki, Finland).
1995. \$1,200. In-House Research Fund, California Academy of Sciences (support for participation joint Chinese-Canadian expedition to the Chang-bei Mountains, Jilin Province, northeastern China; project cancelled due to catastrophic rains in proposed research area, funds returned).
1995. \$4,660. Lindsay Fund for Research, California Academy of Sciences (support for field studies in Lake Baikal region, Siberia, Russia).
1991. \$550. In-House Research Fund, California Academy of Sciences (support for participation in Insect Collection Network meetings and Entomological Society of America symposium on "Historical biogeography of western North American insects").
1991. \$1,510. In-house Research Fund, California Academy of Sciences (support for fieldwork in the Hawaiian Islands, May 3-21, 1991).
1989. \$900. In-house Research Fund, California Academy of Sciences (support for photography and illustrations for publication of Carabid Beetle Fauna of the Queen Charlotte Islands).
1989. \$2,208. In-house Research Fund, California Academy of Sciences (support for two-month field study in Madang Province, Papua New Guinea).
1987. \$520. In-house Research Fund, California Academy of Sciences (support for studies in collections at the Museum of Comparative Zoology, Harvard University, and the U. S. National Museum of Natural History, Washington, D.C.).
1987. \$900. In-house Research Fund, California Academy of Sciences (partial support for technical preparator for coastal British Columbia material).
1986. \$4,800. National Geographic Society (for fieldwork in coastal British Columbia, including the Queen Charlotte Islands).
1986. \$2,000. Lindsay Fund for Research, California Academy of Sciences (partial support for field studies in British Columbia).
1986. \$3,000. In-house Research Fund, California Academy of Sciences (partial support for fieldwork in coastal British Columbia).

- 1985. \$350. In-house Research Fund, California Academy of Sciences (partial support for fieldwork and museum study in Florida).
- 1984. \$490. In-house Research Fund, California Academy of Sciences for SEM supplies and technical assistance).
- 1984. \$1,000. In-house Research Fund, California Academy of Sciences (for fieldwork in Amazonian rainforest, Peru).
- 1983. \$2,500. Penrose Fund, American Philosophical Society (for fieldwork in Queen Charlotte Islands, British Columbia).
- 1983. \$2,500. In-house Research Fund, California Academy of Sciences (for fieldwork in Queen Charlotte Islands, British Columbia).
- 1973-74, \$1,100. Boreal Institute for Northern Studies. University of Alberta, Edmonton (for fieldwork in mainland Alaska and Aleutian Islands).

Research Contracts:

- 2008 \$5,000. U. S. Fish and Wildlife Office. Potential effect of global climate change on four species of alpine gazelle beetles (*Nebria turmaduodecima*, *Nebria sonorae*, *Nebria spatulata*, and *Nebria rathvoni*).⁴
- 2000. \$15,000. Instituto Nacional de Biodiversidad, Costa Rica (for first year of six-year inventory project on the Coleoptera: Carabidae of Costa Rica). Co-contractor with T. L. Erwin, Smithsonian Institution.

Honors:

- Outstanding Paper in the 2007 Coleopterists Bulletin, The Coleopterists Society, 2008
- Distinguished Service Award, California Academy of Sciences, 2005
- Fellow, California Academy of Sciences, 1980
- National Research Council of Canada Scholar, 1972-75
- Phi Sigma Society, 1969
- Beta Beta Beta Biological Honor Society, 1966
- Phi Eta Sigma Society, 1964

LONG-TERM RESEARCH INTERESTS

- Systematics, biogeography, evolution, and natural history of carabid beetles (Coleoptera: Carabidae).
- Biogeography, ecology, and evolution of high-altitude, montane organisms and faunas.
- General aspects of biogeography and evolution.
- General principles and methods of systematics.

PUBLICATIONS

Reviewed Scientific Papers:

- 92. Bergdahl, J. C., and D. H. Kavanaugh. *Submitted*. Two new species of *Pterostichus* Bonelli subgenus *Pseudoferonina* Ball (Coleoptera: Carabidae: Pterostichini) from the mountains of central Idaho, U.S.A. *ZooKeys*.
- 91. Kavanaugh, D. H., and H. B. Liang. 2010. A new species of genus *Nippononebria* Uéno (Coleoptera: Carabidae: Nebriini) from Changbai Mountain, Jilin Province, China, the first species of the genus confirmed from the Asian mainland. *ZooKeys*, 46:1-13.
- 90. Kavanaugh, D. H. 2010. Discovery of the Eurasian carabid beetle species, *Carabus granulatus* Linnaeus (Coleoptera: Carabidae: Carabini), in the Haida Gwaii (Queen Charlotte Islands) of

- British Columbia, Canada. Proceedings of the California Academy of Sciences, Ser. 4., 61:385-386.
89. Liu, Y., H. B. Liang, D. H. Kavanaugh, and M. F. Yang. 2010. Key to species of the subgenus *Chlaenioctenus* (Coleoptera: Carabidae: Chlaeniini: *Chlaenius*), with description of two new species. *Zootaxa*, 2397:15-28.
 88. Arnaud, P. H., Jr., and D. H. Kavanaugh. 2009. In Memoriam: Hugh Bosdin Leech (1919-1990). Proceedings of the California Academy of Sciences, Ser. 4., 60:85-88.
 87. Kavanaugh, D. H., and S. D. Schoville. 2009. A new and endemic species of *Nebria* Latreille (Insecta: Coleoptera: Carabidae: Nebriini), threatened by climate change in the Trinity Alps of northern California. Proceedings of the California Academy of Sciences, Ser. 4., 60:73-84.
 86. Kavanaugh, D. H., and J. R. LaBonte. 2008. Discovery of *Nebria brevicollis* (Fabricius) (Coleoptera: Carabidae: Nebriini), a European ground beetle, established in the Willamette Valley, Oregon. Proceedings of the California Academy of Sciences, Ser. 4, 59:481-488.
 85. Kavanaugh, D. H. 2008. A new species of *Nebria* Latreille (Insecta: Coleoptera: Carabidae: Nebriini) from the Grand Canyon, Arizona. *Annals of the Carnegie Museum*, 77:1-5.
 84. Erwin, T. L., and D. H. Kavanaugh. 2007. Studies of the subtribe Tachyina (Coleoptera: Carabidae: Bembidiini), supplement E: a revision of genus *Costitachys* Erwin 1974. Proceedings of the California Academy of Sciences, Ser. 4, 58:331-338.
 83. Liang, H. B., and D. H. Kavanaugh. 2007. Review on the genus *Dendrocellus* Schmidt-Göbel (Coleoptera: Carabidae: Dryptini), with descriptions of seven new species. *Coleopterists Bulletin*, 61:1-39.
 82. Kavanaugh, D. H., and H. B. Liang. 2006. Three additional new species of *Aristochroa* Tschitschérine (Coleoptera: Carabidae: Pterostichini) from the Gaoligongshan of western Yunnan Province, China. Proceedings of the California Academy of Sciences, Ser. 4, 57:711-732.
 81. Kavanaugh, D. H., and J. R. LaBonte. 2006. *Pterostichus brachylobus* Kavanaugh and LaBonte, a new species of the carabid beetle subgenus *Hypherpes* Chaudoir, 1838, from the central coast of Oregon (Insecta: Coleoptera: Carabidae: Pterostichini). Proceedings of the California Academy of Sciences, Ser. 4, 57:215-223.
 80. Liang, H. and D. H. Kavanaugh. 2006. A review of genus *Onycholabis* Bates (Coleoptera: Carabidae: Platynini), with description of a new species from western Yunnan, China. *Coleopterists Bulletin*, 59:507-520.
 79. Kavanaugh, D. H. 2005. The California Academy of Sciences Gulf of Guinea Expedition (2001): III. A new species of the endemic genus *Straneo* Basilewsky, 1953, from São Tomé (Insecta: Coleoptera: Carabidae: Platynini). Proceedings of the California Academy of Sciences, Ser. 4, 56:275-283 .
 78. Marek, P. E., and D. H. Kavanaugh. 2005. The evolutionary relationships of North American *Diplous* Motschulsky (Coleoptera: Carabidae: Patrobini) inferred from morphological and molecular evidence. *Invertebrate Systematics*, 19:145-168.
 77. Kavanaugh, D. H. 2004. Planning for research in the 21st century at a large natural history museum. In: Leviton, A. E. (editor), Institutions of natural history: past, present and future.. Proceedings of a symposium held June 16-17, 2003. Proceedings of the California Academy of Sciences, Ser. 4, 55 (Supplement I):295-306.

76. Liang, H.-B., D. H. Kavanaugh, and M.-Y. Tian. 2004. Notes on *Drypta longicollis* MacLeay and the status of the genus-group name, *Desera* Dejean, 1825 (Coleoptera: Carabidae: Dryptini). Proceedings of the California Academy of Sciences, Ser. 4, 55:377-383
75. Kavanaugh, D. H., and H.-B. Liang. 2003. A New Species of *Aristochroa* Tschischérine (Coleoptera: Carabidae: Pterostichini) from the Gaoligongshan of Western Yunnan Province, China. Proceedings of the California Academy of Sciences, Ser. 4, 54:238-244.
71. Dong, D.-Z., D. H. Kavanaugh, and H. Li. 2002. Butterfly resources of Nujiang Canyon in Yunnan. Journal of Southwest Agricultural University, 24:289-292.
69. Clarke, T.E., D. B. Levin, D. H. Kavanaugh, and T. E. Reimchen. 2001. Rapid evolution in the *Nebria gregaria* group (Coleoptera: Carabidae) and the paleogeography of the Queen Charlotte Islands. Evolution, 55:1408-1418.
68. Erwin, T. L., and D. H. Kavanaugh. 1999. A new species of *Tachyta* Kirby from southeastern China with a new key and analysis of phylogenetic relationships for the subgenus *Paratachyta* Erwin (Coleoptera: Carabidae: Bembidiini: Tachyina). Pp. 183-194. In: Zamotajlov, A., and R. Sciaky (editors), Advances in carabidology (Papers dedicated to the memory of Prof. Oleg L. Kryzhanonskij). MUIISO Publishers, Krasnodar, 473 pp.
66. Kavanaugh, D. H., and Long C.-L. 1999. Three new species of genus *Leistus* Frölich (Coleoptera: Carabidae: Nebriini) from the Gaoligongshan of Yunnan Province, China. Acta Botanica Yunnanica, Supplement XI:99-120.
65. Erwin, T. L., and D. H. Kavanaugh. 1999. Studies of the subtribe Tachyina (Coleoptera: Carabidae: Bembidiini), supplement D: description of a male of *Costitachys inusitatus* Erwin, with notes on distribution of this species. Coleopterists Bulletin, 53:52-55.
64. Kavanaugh, D. H. 1999. Investigations of phylogenetic relationships among basal grade Carabidae (Coleoptera): a report of work in progress. Pp. 329-342. In: Ball, G. E., A. Casale, and A. Vigna Taglianti (editors), Phylogeny and classification of Caraboidea (Coleoptera: Adephaga). Proceedings of a symposium (28 August, 1996, Florence, Italy). XX International Congress of Entomology. Atti Museo Regionale di Scienze Naturali, Torino, 543 pp.
63. Kavanaugh, D. H. 1998. Field observations confirming brood care in *Percus passerinii* Dejean (Coleoptera: Carabidae: Pterostichini) in the Tuscan Apennines, Italy. Bollettino della Società Entomologica Italiana, 130:55-63.
58. Kavanaugh, D. H., and V. G. Shilenkov. 1996. A remarkable new species of *Nebria* (Coleoptera: Carabidae: Nebriini) from North Korea. Proceedings of the California Academy of Sciences, Ser. 4, 49:151-160.
57. Kavanaugh, D. H. 1996. Phylogenetic relationships of genus *Pelophila* Dejean to other basal grade Carabidae (Coleoptera). Annales Zoologici Fennici, 33:31-37.
53. Ball, G. E., D. H. Kavanaugh, and B. P. Moore. 1995. *Sugimotoa parallela* Habu (Coleoptera: Carabidae: Lebiini): redescription, geographical distribution, and relationships based on cladistic analysis of adult structural features. Pp. 275-311. In: Watanabe, Y., S. Sato, and M. Owada (editors), Beetles and nature. Special Bulletin of the Japanese Society of Coleopterology, No. 4, Tokyo, Japan, ix + 510 pp.
52. Kavanaugh, D. H. 1995. Genus *Nippononebria* in the Nearctic Region, with description of a new subgenus, *Vancouveria* (Coleoptera: Carabidae). Entomological News, 106:153-160.
51. Arnold, R. A., J. A. Halstead, D. H. Kavanaugh, and K. H. Osborne. 1994. Valley elderberry longhorn beetle. Pp. 414-415. In: Thelander, C. G. (editor), Life on the edge: a guide to California's

- endangered natural resources. Volume I: Wildlife. Biosystems Books, Santa Cruz, California, xvi + 550 pp.
50. Kavanaugh, D. H., K. H. Osborne, and L. Serpa. 1994. Delta green ground beetle. Pp. 412-413. *In*: Thelander, C. G. (editor), Life on the edge: a guide to California's endangered natural resources. Volume I: Wildlife. Biosystems Books, Santa Cruz, California, xvi + 550 pp.
 49. Freitag, R., D. H. Kavanaugh, and R. Morgan. 1993. A new species of *Cicindela* (*Cicindela*) (Coleoptera: Carabidae: Cicindelini) from remnant native grassland in Santa Cruz County, California. *Coleopterists Bulletin*, 47:113-120.
 48. Weber, D. C., and D. H. Kavanaugh. 1992. A new locality record for *Scaphinotus longiceps* Van Dyke (Coleoptera: Carabidae), with notes about habitat. *Coleopterists Bulletin*, 46:394-396.
 47. Kavanaugh, D. H., and T. L. Erwin. 1992. Extinct or extant? A new species of intertidal bembidiine (Coleoptera: Carabidae: Bembidiini) from the Palos Verdes Peninsula, California. *Coleopterists Bulletin*, 46:311-320.
 46. Kavanaugh, D. H. 1992. Carabid beetles (Coleoptera: Carabidae) of the Queen Charlotte Islands, British Columbia. *Memoirs of the California Academy of Sciences*, 16, vii + 113 pp.
 45. Kavanaugh, D. H., and S. E. Tatro. 1991. The Willard Holmes Nutting, Jr. collection donated to the California Academy of Sciences. *Coleopterists Bulletin*, 45:316.
 44. Kavanaugh, D. H., and T. L. Erwin. 1991. The tribe Cicidini Bänninger (Coleoptera: Carabidae): comparative morphology, classification, natural history, and evolution. *Proceedings of the Entomological Society of Washington*, 93:356-389.
 43. Kavanaugh, D. H. 1991. Amphizoidae (Adephaga). Pp. 312-314. *In*: Stehr, F. W. (editor), *Immature insects*. Volume 2. Kendall/Hunt Publishing Company, Dubuque, Iowa, xvi + 975 pp.
 41. Kavanaugh, D. H. 1989. The ground-beetle (Coleoptera: Carabidae) fauna of the Queen Charlotte Islands: its composition, affinities, and origins. Pp. 131-146. *In*: Scudder, G. G. E., and N. Gessler (editors), *The outer shores*. Queen Charlotte Islands Museum Press, Skidegate, British Columbia, vi + 327 pp.
 38. Downes, J. A., and D. H. Kavanaugh. 1988. Introduction and commentary. Pp. 1-11. *In*: Downes, J. A., and D. H. Kavanaugh (editors), *Symposium: origins of the North American insect fauna*. *Memoirs of the Canadian Entomological Society*, 108, 168 pp.
 37. Kavanaugh, D. H. 1988. The insect fauna of the Pacific Northwest Coast: present patterns and affinities and their origins. Pp. 125- 149. *In*: Downes, J. A., and D. H. Kavanaugh (editors), *Symposium: origins of the North American insect fauna*. *Memoirs of the Canadian Entomological Society*, 144, 168 pp.
 36. Kavanaugh, D. H. 1988. An additional specimen extending the known range of color variation in *Notiokasis chaudierei* Kavanaugh and Nègre (Coleoptera: Carabidae). *Coleopterists Bulletin*, 42:310.
 33. Kavanaugh, D. H. 1986. A systematic review of amphizoid beetles (Amphizoidae: Coleoptera) and their phylogenetic relationships to other Adephaga. *Proceedings of the California Academy of Sciences*, Ser. 4, 44:67-109.
 29. Liebherr, J. K., and D. H. Kavanaugh. 1985. Ovoviviparity in carabid beetles of the genus *Pseudomorpha* (Insecta: Coleoptera). *Journal of Natural History (London)*, 19:1079-1086.

28. Kavanaugh, D. H., and T. L. Erwin. 1985. *Trechus obtusus* Erichson (Coleoptera: Carabidae), a European ground beetle on the Pacific Coast of North America: its distribution, introduction, and spread. *Pan-Pacific Entomologist*, 61:170-179.
27. Kavanaugh, D. H. 1985. On wing atrophy in carabid beetles (Insecta: Coleoptera: Carabidae), with special reference to Nearctic *Nebria*. Pp. 408-431. *In*: Ball, G. E. (editor), *Taxonomy, phylogeny, and zoogeography of beetles and ants: a volume dedicated to the memory of Philip J. Darlington, Jr. 1904-1983*. Dr. W. Junk Publishers, Dordrecht, xiii + 514 pp.
24. Kavanaugh, D. H. 1984. Studies on the Nebriini (Coleoptera: Carabidae), V. Nearctic *Nebria* taxa and changes in nomenclature. *Proceedings of the California Academy of Sciences, Ser. 4*, 43:159-177.
23. Kavanaugh, D. H. 1984. A catalog of the Coleoptera of America north of Mexico. Family Amphizoidae. United States Department of Agriculture, Agriculture Handbook No. 529-5, x + 5 pp.
21. Kavanaugh, D. H., and J. Nègre. 1983. Notioskasiini--a new tribe of Carabidae (Coleoptera) from southeastern South America. *Coleopterists Bulletin*, 36:549-566.
19. Erwin, T. L., and D. H. Kavanaugh. 1981. Systematics and zoogeography of *Bembidion* Latreille: I. The *carlhi* and *erasum* groups of western North America (Coleoptera: Carabidae, Bembidiini). *Entomologica Scandinavica, Supplement 15*:33-72.
18. Kavanaugh, D. H., and R. E. Roughley. 1981. On the identity of *Amphizoa kashmirensis* Vazirani (Coleoptera: Amphizoidae). *Pan-Pacific Entomologist*, 57:269-272.
17. Kavanaugh, D. H., and P. H. Arnaud, Jr. 1981. Hugh Bosdin Leech--a curator's curator. *Pan-Pacific Entomologist*, 57:2-42.
16. Kavanaugh, D. H. 1981. Studies on the Nebriini (Coleoptera: Carabidae), IV. Four new *Nebria* taxa from western North America. *Proceedings of the California Academy of Sciences, Ser. 4*, 42:435-442.
15. Erwin, T. L., and D. H. Kavanaugh. 1980. On the identity of *Bembidion puritanum* Hayward (Coleoptera: Carabidae: Bembidiini). *Coleopterists Bulletin*, 34:241-242.
14. Kavanaugh, D. H. 1980. On type specimens of *Amphizoa* LeConte (Coleoptera: Amphizoidae). *Pan-Pacific Entomologist*, 56:289-292.
13. Kavanaugh, D. H. 1980. Insects of western Canada, with special reference to certain Carabidae (Coleoptera): present distribution patterns and their origins. *Canadian Entomologist*, 112:1129-1144.
12. Kavanaugh, D. H. 1979. Checklist of the beetles of Canada, United States, Mexico, Central America and the West Indies (Yellow Version). Family 5. Amphizoidae, the trout-stream beetles. World Natural History Publications, Marlton, New Jersey, 4 pp.
11. Kavanaugh, D. H. 1979. A third Wollaston Collection rediscovered at the California Academy of Sciences. *Coleopterists Bulletin*, 33:350.
10. Kavanaugh, D. H. 1979. Studies on the Nebriini (Coleoptera: Carabidae), III. New Nearctic *Nebria* species and subspecies, nomenclatural notes, and lectotype designations. *Proceedings of the California Academy of Sciences, Ser. 4*, 42:87-133.
9. Kavanaugh, D. H. 1979. Investigations on present climatic refugia in North America through studies on the distributions of carabid beetles: concepts, methodology and prospectus. Pp. 369-381. *In*:

Erwin, T. L., G. E. Ball, D. R. Whitehead, and A. L. Halpern (editors), Carabid beetles: their evolution, natural history, and classification (Proceedings of the First International Symposium of Carabidology, Smithsonian Institution, Washington, D. C., August 21, 23, and 25, 1976). W. Junk b.v., Publishers, The Hague, 635 pp.

8. Kavanaugh, D. H. 1979. Rates of taxonomically significant differentiation in relation to geographical isolation and habitat: examples from a study of the Nearctic *Nebria* fauna. Pp. 35-57. In: Erwin, T. L., G. E. Ball, D. R. Whitehead, and A. L. Halpern (editors), Carabid beetles: their evolution, natural history, and classification (Proceedings of the First International Symposium of Carabidology, Smithsonian Institution, Washington, D. C., August 21, 23, and 25, 1976). W. Junk, b.v., Publishers, The Hague, 635 pp.
7. Kavanaugh, D. H. 1978. Chapter 8. Hennigian phylogenetics in contemporary systematics: principles, methods, and uses. Pp. 139-150. In: Beltsville symposia in agricultural research, 2. Biosystematics in agriculture. Allenheld, Osmun and Company, Montclair, New Jersey, xii + 340 pp.
6. Kavanaugh, D. H. 1977. An example of aggregation in the *Scaphinotus* subgenus *Brennus* Motschulsky (Coleoptera: Carabidae: Cychrini). Pan-Pacific Entomologist, 53:27-31.
5. Kavanaugh, D. H., and E. A. Martinko. 1972. Notes on distribution and a peculiar behavior pattern in *Nebria purpurata* LeConte (Coleoptera: Carabidae). Coleopterists Bulletin, 26:147-149.
4. Kavanaugh, D. H. 1972. Discussion. Pp. 42-44, and figure 1. In: Heming, B. S. (editor), Entomology and education. Proceedings of a symposium held May 19, 1972. Quaestiones Entomologicae, 8 (Supplement), 60 pp.
3. Kavanaugh, D. H. 1972. Hennig's principles and methods of phylogenetic systematics. Biologist, 54:115-127.
1. Kavanaugh, D. H. 1971. A new species of *Nebria* Latreille from Utah. Journal of the Kansas Entomological Society, 44:40-46.

Published Abstracts and Reports:

59. Kavanaugh, D. H. 1996. Phylogenetic relationships among "basal grade" carabid lineages (Coleoptera: Carabidae). Pg. 14. [Abstract] Proceedings of the XX International Congress of Entomology, Firenze, Italy, lvi + 820 pp.
54. Kavanaugh, D. H. 1995. Phylogenetic relationships of genus *Pelophila* Dejean to other basal grade Carabidae (Coleoptera). Pg. 8. [Abstract] Programme, Abstracts of Oral Presentations and Posters, List of Participants, 3rd International Symposium of Carabidology, 4-7 September 1995, Kauniainen, Finland, 77 pp.
39. Kavanaugh, D. H. 1988. Relationships between islandic and mainland ground beetle (Coleoptera: Carabidae) faunas of the Pacific Coast of North America. Pg. 18. [Abstract] Proceedings of the XVIII International Congress of Entomology, vi + 499 pp.
30. Kavanaugh, D. H. 1985. Ground beetle fauna of Queen Charlotte Islands. Pp. 6-7. [Report] American Philosophical Society, Grantees' Reports, 1984, v + 315 pp.
2. Kavanaugh, D. H. 1971. Up the falls--tarsal modifications in a carabid. Pg. 16. [Abstract] Proceedings of the Nineteenth Annual Meeting of the Entomological Society of Alberta, 1971, v + 56 pp.

Edited Publications:

60. Hardy, A. R., F. G. Andrews, and D. H. Kavanaugh (Editors). 1995. The Collected LeConte Papers on Entomology. Volume X, 1856-1859. Scarabaeus Associates, Sacramento, California, iv + 370 pp.
42. ----- . 1989. The Collected LeConte Papers on Entomology. Volume IX, LeConte, 1847- 1853. Scarabaeus Associates, Sacramento, California, iv + 508 pp.
40. Downes, J. A., and D. H. Kavanaugh (Editors). 1988. Symposium: origins of the North American insect fauna. *Memoirs of the Canadian Entomological Society*, 144, 168 pp.
35. Hardy, A. R., F. G. Andrews, and D. H. Kavanaugh (Editors). 1987. The Collected LeConte Papers on Entomology. Volume VIII, LeConte and Horn, 1883. Scarabaeus Associates, Sacramento, California, xii + xxxviii + 567 pp.
34. ----- . 1986. The Collected LeConte Papers on Entomology. Volume VII, LeConte and Horn, 1876, J. E. LeConte, 1824-1859. Scarabaeus Associates, Sacramento, California, iv + 563 pp.
32. ----- . 1985. The Collected LeConte Papers on Entomology. Volume VI, 1878-1884. Scarabaeus Associates, Sacramento, California, viii + 514 pp.
31. ----- . 1985. The Collected LeConte Papers on Entomology. Volume V, 1869-77. Scarabaeus Associates, Sacramento, California, viii + 539 pp.
26. ----- . 1984. The Collected LeConte Papers on Entomology. Volume IV, 1862-1868. Scarabaeus Associates, Sacramento, California, viii + 579 pp.
25. ----- . 1984. The Collected LeConte Papers on Entomology. Volume III, 1855-1862. Scarabaeus Associates, Sacramento, California, xiii + 552 pp.
22. ----- . 1983. The Collected LeConte Papers on Entomology. Volume I, 1850-1854. Scarabaeus Associates, Sacramento, California, xiii + 549 pp.
20. ----- . 1982. The Collected LeConte Papers on Entomology. Volume I, 1844-1850. Scarabaeus Associates, Sacramento, California, xiii + 481 pp.

Electronic Publications:

73. Erwin, T.L., D.H. Kavanaugh, and W. Moore. 2002, revised 2004. The Family Carabidae: Key to the tribes and genera known to occur in Costa Rica. http://www.inbio.ac.cr/papers/carabidae/esp/images/CR_carabid_key.doc
72. Erwin, T.L., D.H. Kavanaugh, and W. Moore. 2002. The Family Carabidae: Classification of the Costa Rican Taxa. <http://www.inbio.ac.cr/papers/carabidae/esp/clasificacion.htm>
70. Moore, W., T. L. Erwin, T. L. , and D. H. Kavanaugh. 2002. The Family Carabidae: Introduction. <http://www.inbio.ac.cr/papers/carabidae/esp/index.html>
67. Kavanaugh, D. H. 1999. Beetles. *In*: Bartholomew, B. A survey of the biological diversity of the Gaoligongshan of western Yunnan. Map of beetle and plant collections made during the 1998 expedition. <http://research.calacademy.org/yunnan/Yunnan1998/>
62. Penny, N. D., D. H. Kavanaugh, and J. F. Parinas. 1997. Entomology general collection and primary type collection websites. <http://www.calacademy.org/research/entomology/website1/>

61. Kavanaugh, D. H. 1997. David H. Kavanaugh, Ph.D., Senior Curator of Entomology. People, Places and Things. <http://www.calacademy.org/research/people/people/pkavan.htm>
56. Kavanaugh, D. H. 1995. Pelophilini. *In*: Erwin, T. L. (editor). Checklist of Caraboidea (Coleoptera) of the Western Hemisphere. <gopher://nmnhgoph.si.edu:70/11/.entomology/coll/carabid>
55. Kavanaugh, D. H. 1995. Nebriini. *In*: Erwin, T. L. (editor). Checklist of Caraboidea (Coleoptera) of the Western Hemisphere. <gopher://nmnhgoph.si.edu:70/11/.entomology/coll/carabid>

Popular Articles:

74. Kavanaugh, D. H. 2003. Collections: 18 million real things. Pp. 32-41. *In*: Howell, K. K. (editor), 18 million real things: 150 years of discovery at California Academy of Sciences. California Academy of Sciences, San Francisco, 48 pp.