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Obituary and bibliography of Norm Penny (1946-2016), an “Entomologist’s Entomologist”

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Norm Penny, 1986 (Photograph by Susan Middleton).

The section “Remembrances of Norm Penny” was authored by BCR, and the remaining sections by RLZ. Fabio Penny and Rachel Diaz-Bastin made valuable additions to the text.

Norman Dale Penny, collection manager emeritus in the Department of Entomology at the California Academy of Sciences, San Francisco, California, and past president of the Pacific Coast Entomological Society, died of a stroke on July 10, 2016. That weekend he and his wife were near Quincy, in Plumas County, California, collecting Mecoptera for DNA retrieval to help elucidate the phylogeny of the group. After collecting his targeted species, he suffered a severe headache and had to quit the field. He was first taken to a local hospital, and then airlifted to a larger facility in Reno, where he passed away the following day, attended by both his wife and son. Norm’s brother, Robert Dean Penny, predeceased him. Norm is survived by his wife Ana, son Fabio, daughter Elisiane Hinostroza, four grandchildren, and his sister Marilyn Rader.

Norm was born on March 13 1946 in Manhattan, Kansas, son of Dr. Lowell H. and Mary (nee Clark) Penny. His mother was a teacher and his father an agronomist (working primarily on corn) for the U.S. Department of Agriculture, who later transferred to Iowa State University in Ames where Norm grew up. Norm joined the Boy Scouts and would go camping near Camp Mitigwa along the Des Moines River and ride his bike out to fish at the Peterson Pits and McFarland Lake, about five miles north of town. He credited these activities for his interest in nature, particularly identification of the local flora and fauna. But his entomological career began when he was six years old, after a neighbor taught him how to mount insects. Norm became hooked, chasing butterflies with a homemade net—a photograph of Norm and his collection even made the local paper. He attended Ames High School, where he played football and ran the mile in track, graduating in 1964. He entered Iowa State University (joining the Farmhouse Fraternity because of its high academic reputation) and received his B.S. in Entomology in 1968. His choice of graduate school was partly determined by Army R.O.T.C. training, and he opted for the University of Illinois. There he became associated with the Illinois State Natural History Survey, developed an interest in Mecoptera, and received a M.S. degree in 1970 under William Luckmann. He then transferred to the University of Kansas to work with Dr. George Byers, the world authority on Mecoptera, receiving his Ph.D. in 1974.

Finding little call for scorpionfly-related employment, Norm joined the Peace Corps and was posted to Malaysia, where he worked on insect pests in rice paddies from 1975–1976 at the Rice Research and Development Institute in Bumbong Lima.

Norm then moved to Manaus, Brazil, where he teamed up with Brett Ratcliffe at Brazil’s Instituto Nacional de Pesquisas da Amazônia (INPA). He spent eight years there, learning to speak Portuguese, and ultimately serving as chair of the Department of Entomology. Norm and Brett travelled throughout Brazilian Amazonia collecting specimens and helped develop the first on site insect collection in the Amazon (detailed below).

Norm was fond of the saying “Single men who go to Brazil return married, and married men return single” and offered himself as proof. At INPA he met Ana Maria de Souza Lira, a microbiologist there. Norm made sure to be on the same bus she was taking and began to ask her for a date. The first three times she said “No”. Norm thought she might be a little scared, so at the fourth time, in his broken Portuguese he said she could bring her entire family if she wanted to. She brought a friend instead, and that worked. They dated using a Portuguese/English dictionary in the middle of the table, and in 1978 they married (they still had that book when Norm passed away).

Figure 1. Loading collecting gear at INPA's Reserva Ducke, north of Manaus, Brazil, March 1977. (L–R): Brett Ratcliffe and Norman Penny (co-curators of the INPA insect collection), William Overall (Curator of Insects, Museu Goeldi in Belem, Brazil), and Henry Stockwell (visiting weevil specialist and medical doctor then working in the Panama Canal Zone, Panama).

In the early 1980s the Brazilian inflation rate climbed over 200% per year, so in 1984 they opted to move back to Ames, where Norm had a position as a visiting scientist at Iowa State University, assisting Dr. William Showers, who was conducting research on corn insect ecology. Then in December of that year Norm moved out to California when he accepted the newly created position of Collection Manager for the Department of Entomology at the California Academy of Sciences in San Francisco, a position he maintained until his retirement on his birthday in 2016.

Norm was a member of the Entomological Society of America, where he served as Secretary, Chair-elect and Chair of Section A (1996–1998) and a member of the ESA Thomas Say Foundation awards committee (1991–1992). He was also a member of the Pacific Coast Entomological Society, serving as President-elect and President in 1991–1992, a Fellow of the Christiansen Research Institute, Papua New Guinea (1986–1989) and a fellow of the Royal Entomological Society of London. He was also a member of the Entomological Collections Network, Entomological Society of Kansas, Xerces Society, an active participant in the International Association of Neuropterology, and from 1994–1998 the editor of the Neuropterists' Newsletter.

He served as a grant reviewer for National Science Foundation and manuscript reviewer for *Acta Amazonica*, *Acta Zoologica Fennica*, California Academy of Sciences Scientific Publications, *Entomological News*, *Journal of the Kansas Entomological*

Figure 2. Entomology staff and associates at the California Academy of Sciences, July 2001. (L–R) (front row): Gary Ouellette, Emily Elsom, Roberta Brett, Corrie Saux Moreau, Ed Ross, Jere Schweikert, Helen Court, Suzanne Ubick; (second row): Paul Marek, Wojciech Pulawski, Heather Tennison, Dave Kavanaugh, Keve Ribardo, Brian Fisher, Charles Griswold, Darrell Ubick; (back row): Keith Dabney, Tom Briggs, Vince Lee, Bob Zuparko, Norm Penny, Xinping Wang, Joel Ledford.

Society, Journal of the North American Benthological Society, Kansas Science Bulletin, The Pan-Pacific Entomologist, Transactions of the Entomological Society of Washington and Thomas Say Publications. He received the Distinguished Service Award from the Fellows of the California Academy of Sciences.

While in Brazil, he served as M.Sc. and Ph.D. advisor to Inocencio Goraveb and as M.Sc. advisor to: Bento Mascarenhas, Lindalva Paes de Albuquerque, Ademar G. Bandeira, Eloy G. Castellon, Julio Dellome Filho, Ana Yoshi Harada, Jose Lopes, Jose Antonio Paulino Luna Dias, Mauricio Mendonca, Norival Paraluppi, Francisco Javier Aqilera Peralta, Jose Albertino Rafael, Elisiana Rufina, Joselita M.M. dos Santos, Miriam Serrano, Claudio Ruy Vasconcelos de Fonseca and Cecile Biancardi.

His field work covered the globe, including Malaysia, Thailand, Brazil, Kenya, Uganda, Mexico, Italy, Switzerland, Finland, England, France, Papua New Guinea, Costa Rica, Madagascar, Sao Tome & Principe, Portugal, Australia, Fiji, China and Taiwan, as well as throughout the western, central and southern United States. His research took him to visits of 35 institutions in 16 states and seven foreign countries.

Norm was the Academy's first collection manager for the Entomology Department, and it became his professional passion to develop, increase, secure and publicize that collection. He helped guide the Department through several major events, including the initiation of both a computerized program for processing loans and accessions as well as a taxon-level database. He oversaw the clean up following the 1989 Loma Prieta earthquake, and the move of the department into temporary quarters on Howard Street in downtown San Francisco and then back to Golden Gate Park four years later when the Academy was rebuilt and had to cope with maintaining basic curatorial

duties as the Department underwent significant staffing reduction. Norm was the primary person for conducting behind-the-scene tours of the collection, introducing thousands of people to the fascinating intricacies of insects and their biology. He traveled on Academy-sponsored expeditions to Papua New Guinea, the Gulf of Guinea, China and Madagascar. Norm was especially impressed by the organization of the latter project, and devoted significant time and that of the personnel under his supervision to dealing with processing the huge number of specimens produced by the mass-sampling traps in Madagascar. Largely because of his emphasis on this project, tens of thousands of specimens were distributed to collaborators, and it became the Department's most successful survey expedition in terms of documenting new taxa: to date the project has contributed to the descriptions of 53 new genera and 1050 new species across 13 orders.

Norm's duties at the Department did not include a research component, but he continued to conduct original research on his own dime, during weekends and vacations. He often was accompanied by his family on the weekend trips, and he would encourage his son to help collect, paying 10 cents for each *Panorpa* specimen, a dollar for a "cool one", French fries to whoever got the most specimens, and ice cream and bragging rights for anything super rare.

Beside the papers listed in the bibliography below, Norm also produced several webpages, including a world checklist of extant Mecoptera species, a bibliography of the world Mecoptera, notes on Madagascar Neuroptera fauna, and the Neuropterida species in California collections. He also began a website for the Mecoptera of the world. His goal was to create a webpage for each of the 650 described species, and had finished the sections for North America, Chile and Taiwan at the time of his death.

Although entomology was his primary focus, Norm enjoyed a variety of other interests. In Brazil, he and Ana developed a decided interest in orchids—at one point they had more than 200 of them growing in their yard. At the Academy he had a reputation for nursing sick orchids back to health—whenever anyone had an ailing orchid he was always happy to take it in, and developed quite a collection over the years, brightening up the entomology department. The crowning jewel of his orchid collection was his Madagascar comet orchid, which bloomed every year and which he loved to show to any and all visitors. He also enjoyed cultivating cacti, and was an avid birder. He eschewed eating California-grown corn because it wasn't as sweet as the corn he grew up with in Iowa, but he was a newshound, enjoyed Sudoku puzzles, and the works of Mickey Spillane. His musical tastes ran to performers like the Eagles, the Animals, and Grace Slick (often listening at top volume early in the morning before other people arrived at work). He was a fan of professional football and the San Francisco 49ers: he remarked that the thing he missed most of all when travelling the world or living in Brazil was the televised broadcast of Monday Night football.

At heart, Norm was a man of simple tastes as befitted his Midwestern background, and eschewed having any sort of fuss raised for him. He was exceptionally generous with his time, energies and enthusiasm, especially to visitors to the Academy. He loved educating and sharing his joy for insects with anyone who took an interest, and had a knack for remembering details and a gift for storytelling. Everyone knew when he was about to tell a story, because he would lean way back in his chair and smile. Most of all, everyone who knew him remembers his patience, kindness, and generosity.

Norm absolutely adored his grandkids. He was so happy to be around them, and also took the opportunity to introduce them to entomology, giving them their first

insect nets and teaching them how to properly swing them and beat vegetation. He truly believed that people, especially children, need to go outside and be in nature. His mantra was “The magic of nature starts when you are in it.”

REMEMBRANCES OF NORM PENNY

In October 1976, I took a two-year leave-of-absence from the University of Nebraska and, with my family, moved to Manaus, Amazonas, Brazil, to work for the Instituto Nacional de Pesquisas da Amazônia (INPA) as co-curator of the nascent entomology research collections and to co-teach a graduate level taxonomy course on the INPA campus for the Universidade de Amazonas. Upon arriving, I met Norm Penny for the first time, who was to be my co-curator of the collections, co-teacher of the taxonomy course, and my closest colleague. I had little Portuguese skills at the time, but Norm, who had just come from the Peace Corps in Malaysia, already had a Brazilian girlfriend (Ana, later his wife) and so was much more proficient in speaking and understanding Portuguese than I. Together, we became an almost passable team for teaching the graduate-level taxonomy class in Portuguese within a year after we arrived.

That first year, Norm and I traveled far and wide in Amazonia to collect scarabaeoids and neuropteroids. We frequently collected at the Institute's reserves, Reserva Ducke (26 km north of Manaus) and at the white sands of Reserva Campinas (60 km north). Inevitably, while peering into the forest for our study organisms, we were nearly always accompanied by the wary curiosity of monkeys, timid agoutis, toucans, squawking parrots, soaring vultures, occasionally peccaries, and more rarely a tapir or secretive paca. We spent many nights at black light traps deep in the forests where no one had ever collected before, and so our excitement at the prospect of new discoveries was keen and never wavered. We did find, however, that insect diversity and abundance on any of the black water drainages of the Rio Negro in the vicinity of Manaus was low, and collecting was never as successful as collecting on white water drainages of the Rio Solimões (Amazon). Henry Walter Bates had the same experiences, which is why he moved on from Manaus not long after arriving there in January 1850. Many times at the lights, the orange glow reflecting from the eyes of caimans resting in the water or near-shore close to our light kept us... alert.

Norm and I spent many hours in the collections organizing, identifying, and adding new material resulting from our field endeavors. We would each sit for hours at a long bench with scope, specimens, and literature and had a grand time augmenting and improving what was then a small nucleus of a collection. While most of the research staff would partake of a strong *cafezinho* at mid-morning in our labs, Norm would always have a large bottle of guaraná (the soft drink formulation from Antarctica) from the cantina, and I am sure its high caffeine content stimulated him almost as much as his insects.

In January 1977 we traveled with several other INPA researchers 250 km east of Manaus on the way to Itacoatiara for collecting. In the process of setting up a large tarp over a pole framework for our field camp, we noticed fresh, large, jaguar tracks in the sand at our feet! We bathed in a small *igarapé* (our lily white skins were a source of humor to our Brazilian technicians) and cooked chicken, beans, and rice over an open fire. While walking a trail, Norm was ahead of me, and he stooped to go under an overhanging branch... where I saw a 6 foot long, green snake within inches of his back. He never knew a thing until I said, “ahem, don't look up... or stop”. Insect

collecting on this excursion was okay but not spectacular (a recurring theme in black water habitats), but the sense of exploration in new surroundings was always there.

In February 1977, we attended the 4th Congress of Brazilian Entomology in Goiânia, Goiás, where we also did some collecting in much drier cerrado habitat near town. From 23 February to 6 March we hosted Terry Erwin from the Smithsonian institution and collected locally. From 16 to 23 March we and several INPA researchers took a DC-3 provided by the Brazilian Air Force to Reserva Humboldt/Aripuana in Mato Grosso state, where there was prime forest and a world-class waterfall. The simuliids were a force to be reckoned with, and the general collecting was only moderately successful. We returned for further collecting at Reserva Humboldt later that year during the dry season, again courtesy of the Brazilian Air Force on the inbound portion of the trip. Outbound was on a six-seat Piper Comanche.

In June 1977, we boarded a bus at 3 a.m. (with all of our collecting gear) to travel from Manaus to Boa Vista, about 662 km to the north and normally 15 hours away. At Km 205 we had to wait briefly until there was a convoy of at least three vehicles so that we could safely pass through the Wairi Indian Reservation, where there had previously been minor “difficulties”. About half way to Boa Vista, and just after noon, we stopped at a small shack/bar, and the bus driver announced we had mechanical problems and had to stop for the night. Lots of grumbling, but most people were prepared with snacks and drinks. We carried MREs (meals ready to eat), and so we were prepared. Screeching blue macaws and howler monkeys roaring in the distance were abundant. We set up a light briefly but got very little and then had a hugely uncomfortable night on the bus accompanied by mosquitoes, fussy children, seats meant for torture, and high heat and humidity. At dawn, the driver said we were ready to go, although there had been no mechanical work on the bus. It turned out he had stopped for the night to be with either his sweetie or a “borboleta da noite.” At the Rio Anua, about $\frac{3}{4}$ of the way to Boa Vista, the bridge was out due to the swollen and turbulent river. All of the passengers had to hand carry all their luggage (or collecting gear, including a small generator) across a jury-rigged, narrow plank to the other side of the river where there was no shelter from the sun or rain. We were assured another bus from Boa Vista would pick us up, and although doubtful that this would actually happen, it did, and a bus appeared before the rains came. At Km 544 we all had to leave the bus once again while it traversed a rickety wooden bridge, each end of which was being washed out by flood waters. At Km 550, the road was entirely flooded and being washed away. The bridge over an igarapé here had wavelets crashing up through the wooden planks. At Km 558 at 11 a.m. there was a tremendous crash at the back of the bus signaling that the right rear shocks had collapsed. We all had to walk about two miles to a small farmstead and wait for the bus to be jury rigged, which they managed to do at about 5 p.m. At Km 610, we took a ferry across the Rio Branco, which was also swollen and turbulent from the rains. We finally reach Boa Vista at Km 755 at 10:15 p.m., two days after leaving Manaus. The next day we collected locally and arranged for a taxi to take us to the Venezuelan border 200 km away for a couple of days of collecting in swampy, savanna-like habitat. The rains continued unabated, the roads got worse, and we had to get out and push the taxi on many occasions to get over rutted and muddy areas. On returning to Boa Vista, we collected locally and decided to fly back to Manaus. We learned later that two major bridges on the way back to Manaus had completely washed out and would not be repaired for at least a month. Had we returned by bus,

we would have been trapped between impassable rivers. Norm was able to collect some Mecoptera and Neuroptera near Boa Vista to make the trip... worthwhile? In spite of all these challenges and set-backs, Norm was always positive and cheerful, which was a reflection of his generous personality.

Norm and I collected 11 – 18 October 1977 at the newly formed Amazon National Park near Itaituba on the Rio Tapajós south of Santarém. Facilities were isolated and primitive (wooden shack and hammocks), but the collecting was great. Once again, our travels were adventures where we used commercial jet flights from Manaus, taxis, canoes to cross rivers with all of our gear, numerous jeep rides to collecting spots, and a prop plane out of Itaituba where the fare could be paid in gold dust or nuggets by miners just in from the field. We did buy some gold dust that was carefully weighed out on the “counter” of the open-air “terminal”. These excursions are representative of our many collecting trips during the mid-1970s in and around Amazonia. Today’s infrastructure is much more developed: roads are better, good bridges now exist where there were ferries before, and service stations and restaurants are more prevalent. Of course, the habitat and the plants and animals have suffered in the interim as a result of all this “development”.

George Ball (carabid specialist from the University of Alberta) and his wife Kay spent time with us from 10–19 August and 20–27 September 1978 collecting in the field and curating the ground beetles in the INPA collection. We all attended the formal wedding of Norm and Ana on 18 August with a fancy reception following. Warwick Kerr, INPA’s director and famous for his Africanized bee work, also attended.

The last time I saw Norm in Manaus was 13 October 1978 just before we returned to the United States. Norm stayed on in Manaus for several more years before he obtained the position of Collection Manager at the Academy. Of course I saw Norm many times after that while visiting the Academy or when he stopped by Lincoln on his visits to see relatives in Iowa or at annual meetings of the Entomology Collections Network held jointly with the Entomological Society of America.

In my experience, Norm was one of the friendliest people I have ever met. His passion for his Mecoptera and Neuroptera was always bubbling over, and he cared greatly for the collections under his care at the Academy. He was wonderful at outreach to the general public and generous with his time to visitors, whether they were visiting scientists, amateur “entoids”, or just interested individuals. Norm Penny was an accomplished scientist, a dedicated caretaker of collections, a gentleman in his persona, and a good friend and colleague. I am fortunate to have shared some adventures of exploration and discovery with him in Amazonia, and I shall miss him.

SPECIES NAMED IN NORM PENNY’S HONOR

- Agra pennyi* Erwin, 1982 (Coleoptera: Carabidae)
- Chloronia pennyi* Contrera-Ramos, 2000 (Megaloptera: Corydalidae)
- Coniopteryx pennyi* Meinander, 1980 (Neuroptera: Coniopterygidae)
- Dimarella pennyi* Miller, 1989 (Neuroptera: Myrmeleontidae)
- Docalidia pennyi* Neilson, 1986 (Homoptera: Cicadellidae)
- Dysimiella pennyi* Broomfield, 1985 (Hemiptera: Derbidae)
- Epipsocus pennyi* New, 1980 (Psocoptera: Epipsocidae)
- Gryposmylus pennyi* Winterton & Wang, 2016 (Neuroptera: Osmylidae)

Guineapsaltria pennyi de Boer, 1993 (Homoptera: Tibicinidae)
Hemerobius pennii Monserrat, 1996 (Neuroptera: Hemerobiidae)
Heteroconis pennyi Meinander, 1990 (Neuroptera: Coniopterygidae)
Lasiacantha pennyi Göllner-Scheiding, 2005 (Hemiptera: Tingidae)
Lutzomyia pennyi Arias & Freitas, 1982 (Diptera: Psychodidae)
Lycoderes pennyi Sakakibara, 1991 (Hemiptera: Membracidae)
Macronema pennyi Flint, 1978 (Trichoptera: Hydropsychidae)
Neopanorpa pennyi Byers, 1999 (Mecoptera: Panorpidae)
Panorpa pennyi Byers, 2013 (Mecoptera: Panorpidae)
Peritropoides pennyi Carvalho, 1982 (Hemiptera: Miridae)
Protohermes pennyi Liu, Hayashi & Yang, 2009 (Megaloptera: Corydalidae)
Phlotodes pennyi New, 1980 (Psocoptera: Myopsocidae)
Ravola pennyi Banaszkiwicz & Szwed, 2005 (Hemiptera: Derbidae)
Semidalis normani Meinander, 1982 (Neuroptera: Coniopterygidae)

TAXA DESCRIBED

DIPTERA

Muscidae

Atherigona nigradorsalis Couri, Pont & Penny, 2006
Atherigona quadriseta Couri, Pont & Penny, 2006
Atherigona variata Couri, Pont & Penny, 2006
Brontaea differa Couri, Pont & Penny, 2006
Cephalispa azurea Couri, Pont & Penny, 2006
Cephalispa curta Couri, Pont & Penny, 2006
Coenosia aberrans Couri, Pont & Penny, 2006
Dichaetomyia colorata Couri, Pont & Penny, 2006
Dichaetomyia flabellifera Couri, Pont & Penny, 2006
Dichaetomyia nigra Couri, Pont & Penny, 2006
Dichaetomyia tricolorata Couri, Pont & Penny, 2006
Hebecnema humeralis Couri, Pont & Penny, 2006
Helina carpioe Couri, Pont & Penny, 2006
Helina flavomaculata Couri, Pont & Penny, 2006
Helina grisella Couri, Pont & Penny, 2006
Limnophora mesovittata Couri, Pont & Penny, 2006
Limnophora triangularis Couri, Pont & Penny, 2006
Lispe argentata Couri, Pont & Penny, 2006
Palpibracus flavothorax Couri & Penny, 2006
Palpibracus schlingeri Couri & Penny, 2006
Palpibracus vittatus Couri & Penny, 2006
Phaonia plurivittata Couri, Pont & Penny, 2006
Phaonia univittata Couri, Pont & Penny, 2006
Pyrellia ampullacea Couri, Pont & Penny, 2006
Spilogona fulvipollinosa Couri, Pont & Penny, 2006

HEMIPTERA

Aleyrodidae

Bakerius amazonicus Penny & Arias, 1981
Bakerius maculatus Penny & Arias, 1981
Ceraleurodius duckei Penny & Arias, 1981

Cixiidae

Amazobenna Penny, 1980 [new genus]
Amazobenna reticulata Penny, 1980

Derbidae

Neodawnaria amazonica Penny & Arias, 1986
Neodawnaria glandula Penny & Arias, 1986
Neodawnaria obrienae Penny & Arias, 1986
Neodawnaria quinquepunctata Penny & Arias, 1986

MECOPTERA

Bittacidae

Bittacus tariensis Penny, 1969
Issikiella araguaiensis Penny & Arias, 1984
Issikiella byersi Penny & Arias, 1982
Nannobittacus souzalopesi Penny & Arias, 1982
Neobittacus aripuanaensis Penny, 1977
Pazius ornticandus Penny, 1977

Boreidae

Hesperoboreus Penny, 1977 [new genus]

Panorpidae

Neopanorpa byersi Webb & Penny, 1978

MEGALOPTERA

Corydalidae

Chloronia banksiana Penny & Flint, 1982
Chloronia gloriosoi Penny & Flint, 1982
Chloronia plaumanni Penny & Flint, 1982
Madachauliodes ranomafana Penny, 1999

Sialidae

Protosialis flammata Penny, 1982

NEUROPTERA

Ascalaphidae

Ameropterus brevantennis Penny, 1981
Ascalobyas machadoi Penny, 1981

Neohaploglenius Penny, 1981 [new genus]
Neohaploglenius rondonianus Penny, 1981

Berothidae

Lomamyia trombetensis Penny, 1984

Chrysopidae

Asthenochrysa Adams & Penny, 1992 [new genus]
Ceraeochrysa acmon Penny, 1998
Ceraeochrysa acutipuppis Adams & Penny, 1987 (1985)
Ceraeochrysa ariasi Adams & Penny, 1987 (1985)
Ceraeochrysa costaricensis Penny, 1997
Ceraeochrysa displepis de Freitas & Penny, 2001
Ceraeochrysa dolichosvela de Freitas & Penny, 2001
Ceraeochrysa elegans Penny, 1998
Ceraeochrysa falcifera Adams & Penny, 1987 (1985)
Ceraeochrysa inbio Penny, 1997
Ceraeochrysa michaelmuris Adams & Penny, 1987 (1985)
Ceraeochrysa nigripedis Penny, 1997
Ceraeochrysa nigripes Adams & Penny, 1987 (1985)
Ceraeochrysa pseudovaricosa Penny, 1998
Ceraeochrysa rafaeli Adams & Penny, 1987 (1985)
Ceraeochrysa reddyi Adams & Penny, 1987 (1985)
Ceraeochrysa squalidens Adams & Penny, 1987 (1985)
Ceraeochrysa squama de Freitas & Penny, 2001
Ceraeochrysa tauberæ Penny, 1997
Ceraeochrysa tenuicornis Adams & Penny, 1987 (1985)
Chrysopa timberlakei Penny, Tauber & de Leon, 2000
Chrysoperla raimundoï de Freitas & Penny, 2001
Chrysopodes adynatos de Freitas & Penny, 2001
Chrysopodes breviata Adams & Penny, 1987 (1985)
Chrysopodes conisetosus Adams & Penny, 1987 (1985)
Chrysopodes copia de Freitas & Penny, 2001
Chrysopodes crassinervis Penny, 1998
Chrysopodes crassipennis Penny, 2001
Chrysopodes crocinus de Freitas & Penny, 2001
Chrysopodes delicata de Freitas & Penny, 2001
Chrysopodes duckei Adams & Penny, 1987 (1985)
Chrysopodes elongata de Freitas & Penny, 2001
Chrysopodes indentata Adams & Penny, 1987 (1985)
Chrysopodes karinae de Freitas & Penny, 2001
Chrysopodes lineafrons Adams & Penny, 1987 (1985)
Chrysopodes mediocris Adams & Penny, 1987 (1985)
Chrysopodes nebulosa Adams & Penny, 1987 (1985)
Chrysopodes nigropicta de Freitas & Penny, 2001
Chrysopodes polygonica Adams & Penny, 1987 (1985)
Chrysopodes spinella Adams & Penny, 1987 (1985)

- Chrysopodes tetifera* Adams & Penny, 1987 (1985)
Chrysopodes victoriae Penny, 1998
Cryptochrysa de Freitas & Penny, 2001 [new genus]
Cryptochrysa chloros de Freitas & Penny, 2001
Furcochrysa de Freitas & Penny, 2001 [new genus]
Furcochrysa allata de Freitas, 2001
Leptochrysa Adams & Penny, 1992 [new genus]
Leptochrysa prisca Adams & Penny, 1992
Leucochrysa affinis de Freitas & Penny, 2001
Leucochrysa amistadensis Penny, 2001
Leucochrysa barrei de Freitas & Penny, 2001
Leucochrysa bruneola de Freitas & Penny, 2001
Leucochrysa catarinae de Freitas & Penny, 2001
Leucochrysa confusa de Freitas & Penny, 2001
Leucochrysa cornuta de Freitas & Penny, 2001
Leucochrysa forciformis de Freitas & Penny, 2001
Leucochrysa forcipata Penny, 1998
Leucochrysa furcata de Freitas & Penny, 2001
Leucochrysa guataparensis de Freitas & Penny, 2001
Leucochrysa ictericus de Freitas & Penny, 2001
Leucochrysa incognita de Freitas & Penny, 2001
Leucochrysa interata de Freitas & Penny, 2001
Leucochrysa lineata de Freitas & Penny, 2001
Leucochrysa maculata de Freitas & Penny, 2001
Leucochrysa michelini de Freitas & Penny, 2001
Leucochrysa parallela de Freitas & Penny, 2001
Leucochrysa ratcliffi Penny, 2001
Leucochrysa retusa de Freitas & Penny, 2001
Leucochrysa robusta de Freitas & Penny, 2001
Leucochrysa santini de Freitas & Penny, 2001
Leucochrysa scomparini de Freitas & Penny, 2001
Leucochrysa squamisetosa de Freitas & Penny, 2001
Leucochrysa tabacinus de Freitas & Penny, 2001
Leucochrysa tenuis de Freitas & Penny, 2001
Leucochrysa vignisi de Freitas & Penny, 2001
Leucochrysa virginiae Penny, 1998
Leucochrysa vittata de Freitas & Penny, 2001
Meleoma pyknotrichia Penny, 2006
Meleoma stangei Penny, 2006
Nacarina aculeata de Freitas & Penny, 2001
Nacarina gladius de Freitas & Penny, 2001
Nacarina lavrasana de Freitas & Penny, 2001
Nacarina sagitta de Freitas & Penny, 2001
Neosuarius Adams & Penny, 1987 (1985) [new subgenus]
Parachrysopiella pallidicornis Penny, 1996
Parachrysopiella talquensis Penny, 1996
Plesiochrysa alytos de Freitas & Penny, 2001
Ungla pallescens Penny, 1998

Coniopterygidae

Incasemidalis lineatellus Sziráki & Penny, 2012

Dilaridae

Nallachius adamsi Penny, 1981

Nallachius infuscatus Penny, 1981

Nallachus maculatus Penny, 1981

Nallachius parkeri Penny, 1994

Hemerobiidae

Megalomus rafaeli Penny & Monserrat, 1985

Notiobiella brasiliensis Monserrat & Penny, 1983

Notiobiella maculata Monserrat & Penny, 1983

Notiobiella spinosa Monserrat & Penny, 1983

Nusalala andinus Penny & Sturm, 1984

Symphorobius amazonica Penny & Monserrat, 1985

Symphorobius ariasi Penny & Monserrat, 1985

Ithonidae

Adamsiana Penny, 1996 [new genus]

Adamsiana curoei Penny, 1996

Mantispidae

Climaciella amapaensis Penny, 1982

Mantispa ariasi Penny, 1982

Mantispa parvula Penny, 1982

Plega beardi Penny, 1982

Plega duckei Penny, 1982

Plega paraense Penny, 1982

Trichoscelia anae Penny, 1982

Sisyridae

Climacia bifasciata Penny & Rafael, 1983

Climacia negrense Penny, 1981

Sisyra amazonica Penny, 1981

Sisyra ariasi Penny, 1981

Sisyra elongata Penny & Rafael, 1983

NEW NAMES PROPOSED

Ascalobyas Penny, 1981 (n.n. for *Byas* Rambur, 1842) (Neuroptera: Ascalaphidae)

Leucochrysa adamsi Penny, 2001 (n.n. for *L. navasi* Banks, 1941) (Neuroptera: Chrysopidae)

Panorpa banksiana Penny & Byers, 1979 (n.n. for *P. interrupta* Banks, 1918) (Mecoptera: Panorpidae)

Panorpa issiki Penny & Byers, 1979 (n.n. for *P. acuta* Issiki & Cheng, 1947) (Mecoptera: Panorpidae)

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