

## **CURRICULUM VITAE**

### **NAME**

Paul Opler

### **ADDRESS**

Bioagricultural Sciences and Pest Management  
College of Agricultural Sciences

Laurel Hall

### **PHONE**

(970) 491-4322

### **EDUCATION**

1970 Ph D, University of California at Berkeley

1965 MS, California State University at San Jose

1960 BS, University of California at Berkeley

### **ACADEMIC POSITIONS**

October 1970 - June 1974 Research Associate, Comparative ecology of tropical lowland plants, including flowering and fruiting phenology, pollination, reproductive strategies of dioecious woody plants, seed biology, secondary succession, flower visitation by insects., Organization for Tropical Studies, Comparative Ecosystem Grant, San Jose, Costa Rica.

2017-2018 - Professor (College of Agricultural Sciences)

2016-2017 - Professor (College of Agricultural Sciences)

2015-2016 - Professor (College of Agricultural Sciences)

2014-2015 (College of Agricultural Sciences)

2013-2014 (College of Agricultural Sciences)

2012-2013 (College of Agricultural Sciences)

2011-2012 (College of Agricultural Sciences)

2010-2011 (College of Agricultural Sciences)

2009-2010 (College of Agricultural Sciences)

### **OTHER POSITIONS**

December 15, 1983 - December 29, 1997 Section Chief, Supervised staff of 10 professional editors. Pre-submittal review of all manuscripts intended for professional journals by professional fish and wildlife biologists nation-wide. Edited, published, designed and published seven different Fish and Wildlife Research series. For last three years was Scientific Editor, of 'Status and trends of our Nation's biological resources.', Department

of the Interior, Fish and Wildlife Service, Division of Research, Washington DC office, Office of Information Transfer, Editorial Section, physically located in Fort Collins, Colorado.

October 1974 - December 1983 Branch Chief, Director, Research and prepared proposed and final rules to be published in Federal Register adding species and critical habitats to Federal lists of endangered and threatened species. Supervised staff of 20 biologists, 3 economists, and 3 clericals., Department of the Interior, Fish and Wildlife Service, Office of Endangered Species, Biological Support, Washington, DC.

October 26, 1961 - October 15, 1963 Private First Class, Identified adult mosquitos from all army bases and missile sites in New England's states. Wrote review articles for First U.S. Army Surgeon General's Report. Gave insect and rodent control training courses for personnel at U.S. Army bases and missile sites throughout New England., Medical Laboratory, First U.S. Army, 90 Church Street, New York, NY.

## **PUBLISHED WORKS**

### **Books**

(2011). *The complete book on North American Butterflies.*: Thunder Bay Press, San Diego, Calif, 192 pp., Peer Reviewed/Refereed

### **Refereed Journal Articles**

Opler, P. A., Wagner, D. W. Notodontidae (Noctuoidea)- Moths of America north of Mexico. *Wedge Entomological Foundation, Washington, DC (In manuscript).*, Peer Reviewed/Refereed

Opler, P. A., Cognato, A. I. (2016). Phylogenetic analysis supports the recognition of *Albuna beutenmulleri* Skinner as a species distinct from *A. pyramidalis* Walker (Lepidoptera: Sesiidae). *Journal of the Lepidopterists' Society.*, Peer Reviewed/Refereed

Opler, P. A. (2015). Genetic evaluation of the status of Lange's metalmark, a Federally Endangered butterfly. *Journal of Research Development.*, Peer Reviewed/Refereed

(2012). Genetic, phenetic, and distributional relationships of Nearctic *Anthocharis* (Pieridae, Pierinae, Anthocharidini). *Journal of the Lepidopterists' Society (In preparation).*, Peer Reviewed/Refereed

(2011). A multiplex real-time polymerase chain reaction assay to diagnose *Epiphyas postvittana* (Lepidoptera: Tortricidae). *Journal of Economic Entomology*, 104(5), 1706-1719., Peer Reviewed/Refereed

(2011). A new avocado pest in Central America (Lepidoptera: Tortricidae) with a key to Lepidoptera larvae threatening avocados in California. *Zootaxa*, 3137, 31-45., Peer Reviewed/Refereed

(2011). Discovery of false codling moth, *Thaumatotibia leucotreta* (Meyrick) in California. *Proceedings of the Entomological Society of Washington*, 113(4)., Peer Reviewed/Refereed

(2011). Discovery of *Lobesia botrana* ([Denis & Schiffmuller]) in California, an invasive species new to North America (Lepidoptera: Tortricidae). *Proceedings of the Entomological Society of Washington*, 113(1), 14-30., Peer Reviewed/Refereed

### **Refereed Chapters in Books**

Opler, P. A. (2016). In Lynn Wickersham (Ed.), *5 species accounts in: The Second Colorado Breeding Bird Atlas.*: Colorado Bird Atlas Partnership, Colorado Parks and Wildlife., Peer Reviewed/Refereed

## Non-Refereed Journal Articles

- Opler, P. A., Grishin, N., Halbritter, D. DNA barcodes uncover unexpected species richness in the Pine White Butterfly, *Neophasia menapia*. *Journal of the Lepidopterists' Society.*, Not Peer Reviewed/Refereed
- Opler, P. A., Back, W., Grishin, N., Stout, T. DNA barcodes reveal different speciation scenarios in the four North American *Anthocharis* species groups. *Journal of the Lepidopterists' Society.*, Not Peer Reviewed/Refereed
- Opler, P. A., **Hebert, P.**, D'Ercola, J. DNA barcode library for North American butterflies (Hesperioidea and Papilionoidea). *Zootaxa.*, Not Peer Reviewed/Refereed
- Opler, P. A., Scott, J. A. (2017). Another endemic butterfly in the Sacramento Mountains of southern New Mexico, with a review of other endemics. *Papilio (New Series)*, 26, 18-24., Not Peer Reviewed/Refereed
- Opler, P. A., **Scott, J. A.** (2017). *Euchloe hyantis lotta* redefinition, and a large range for *E. hyantis belioides* (Pieridae). *Papilio (New Series)*, 26, 9-14., Not Peer Reviewed/Refereed
- Opler, P. A. (2014). From Ancient Capital to South of the Clouds: Butterfly Studies in China, May 2001. *Journal of Tropical Lepidoptera Research.*, Not Peer Reviewed/Refereed
- (2011). Patterns of mitochondrial haplotype diversity in the invasive pest *Epiphyas postvittana* (Lepidoptera: Tortricidae). *Journal of Economic Entomology*, 104(3), 920-932., Not Peer Reviewed/Refereed
- (2012). *Butterflies of Rocky Mountain National Park* (pp. 59-64).: Denver Museum of Nature and Science, Technical Report 2012-6., Not Peer Reviewed/Refereed
- (2012). *California oaks and allies as evolutionary and ecological islands for leaf-mining Lepidoptera: host individuals and species populations (abstract)* (pp. 31).: Program and Proceedings of the International Lepidopterists' Conference, Denver, July 23-29, Denver Museum of Nature and Science, Technical Report 2012-6., Not Peer Reviewed/Refereed
- (2012). *Conservation status of Colorado moths (abstract)* (pp. 31).: Program and Proceedings of the International Lepidopterists' Conference, Denver, July 23-29, Denver Museum of Nature and Science, Technical Bulletin 2012-6., Not Peer Reviewed/Refereed
- (2012). *Lepidoptera at the C.P. Gillette Museum of Arthropod Diversity, Colorado State University, Ft. Collins: Description and Holdings* (pp. 54-58).: Denver Museum of Nature and Science, Technical Report 2012-6., Not Peer Reviewed/Refereed

## Abstract

- Opler, P. A. (2017). Non-Cordilleran butterfly populations: conspecific or separate species? In Frank D. Krell (Ed.), *28th annual meeting of High Country Lepidopterists: program and abstracts. December 1 and 2, 2017, Colorado State University, Fort Collins.* (Number 8 ed., pp. 6).: Denver Museum of Nature and Science Reports. [www.dmns.org/science/museum\\_publications](http://www.dmns.org/science/museum_publications), Not Peer Reviewed/Refereed
- Opler, P. A. (2016). The growing diversity of North American butterflies: What can we expect in the future? *Denver Museum of Nature and Science Reports 5* (5th ed.): Denver Museum of Nature and Science., Not Peer Reviewed/Refereed

## Book Review

(2011). *Eurytides marcellus*, *Nymphalis antiopa*, *Papilio multicaudata*, and *Zerene eurydice* species accounts.: Grzimek's Animal Life; Gale/Cengage, Farmington Hills, Mich; Simmons, N, editor., Peer Reviewed/Refereed

#### **PAPERS PRESENTED/SYMPOSIA/INVITED LECTURES/PROFESSIONAL MEETINGS/WORKSHOPS**

December 2, 2017, "Non-cordilleran butterfly populations: conspecific or separate species?", High Country Lepidopterists, 28th annual meeting, Colorado State University, Department of BSPM, Colorado State University.

October 19, 2017, "Neanderthals in our family tree", Larimer County Genealogical Society, same, (Presenter) Opler, P. A., Council Tree Library.

January 10, 2017, "Colorado butterflies that eat native buckwheats (*Eriogonum* spp.)", Colorado Native Plant Society, Boulder Chapter, Colorado Native Plant Society, Boulder.

November 12, 2016, "The growing diversity of North American butterflies: What can we expect in the future?", High Country Lepidopterists, University of Colorado, Boulder, (Presenter) Opler, P. A.

June 24, 2016, "Moths of California workshop", San Francisco State University, Sierra Nevada Summer Field Course, San Francisco State University, (Presenter) Opler, P. A.

June 20, 2016, "Natural History of Butterflies of the Sierra Nevada", San Francisco State University, Sierra Nevada Summer Field Course, San Francisco State University.

September 12, 2015, "Butterfly pollinators of Colorado buckwheats (*Eriogonum*)", Colorado Native Plant Society, state-wide conference, Colorado Native Plant Society, (Presenter) Opler, P. A.

August 15, 2015, "Natural History of butterflies of Rocky Mountain National Park, west slope.", Natural History of Butterflies of Rocky Mountain National Park, Rocky Mountain Conservancy, (Presenter) Opler, P. A., Buckner-Opler, E. M.

July 25, 2015, "Natural History of butterflies of Rocky Mountain National Park, east slope.", Natural History of Butterflies of Rocky Mountain National Park, Rocky Mountain Conservancy, (Presenter) Opler, P. A., Buckner-Opler, E. M.

June 26, 2015, "Moths of California workshop", San Francisco State University, Sierra Nevada Summer Field Course, San Francisco State University.

June 22, 2015, "Natural History of Butterflies of the Sierra Nevada", San Francisco State University, Sierra Nevada Summer Field Course, San Francisco State University, (Presenter) Opler, P. A., Buckner-Opler, E. M.

June 19, 2015, "The *Plebejus acmon* complex in southern California", Pacific Slope section of the Lepidopterists' Society, annual meeting, Pacific Slope section of the Lepidopterists' Society, (Presenter) Opler, P. A.

May 7, 2015, "Butterfly pollinators of Colorado buckwheats (*Eriogonum*)", Colorado Native Plant Society, Northern Colorado Chapter, Colorado Native Plant Society, (Presenter) Opler, P. A.

November 8, 2014, "Searching for western blue butterflies: The case of the Owens River drainage in California", High Country Lepidopterists, (Presenter) Opler, P. A., Denver Museum of Nature and Science.

November 8, 2014, "The *Plebejus acmon* Species Group (*Lycaenidae*: *Lycaeninae*) in Southern California and

Baja California", High Country Lepidopterists, Department of Bioagricultural Sciences and Pest Management, (Presenter) Opler, P. A., Denver Museum of Nature and Science.

November 3, 2014, "Conservation and management of butterfly and moth pollinators on Federal lands in California", Management of pollinators on Federal lands in California, University of California and U.S. Forest Service, (Presenter) Opler, P. A., Tiburon, California.

July 13, 2014, "Introduction to butterfly and moth diversity studies", Lepidoptera BioBlitz for Great Basin National Park, National Park Service, Baker, Nevada; Great Basin National Park.

June 28, 2014, "Study of macrolepidoptera", Moths of California, San Francisco State University, Sierra Nevada summer Field Campus, Bassetts, California.

June 23, 2014, "various lectures and field trips", Butterflies of the Sierra Nevada, San Francisco State University, Sierra Nevada summer Field Campus, Bassetts, California.

March 4, 2014, "Insect Diversity and biogeography of Rocky Mountain National Park", Diversity of Rocky Mountain National Park, Estes Park Foundation, Stanley Hotel, Estes Park, Colorado.

March 3, 2014, "A natural history tour of the Galapagos Islands", Monthly guest lecture, Foothills Bird Club, (Presenter) Opler, P. A., Berthoud Community Center, Berthoud, Colorado.

December 2, 2013, "A Naturalists' Tour of China", Foothills Bird Club, Foothills Bird Club, (Presenter) Opler, P. A., Berthoud Community Center, Berthoud, Colorado.

September 25, 2013, "Oaks as Ecological Islands for Leaf-mining Moths", Weekly BSPM Seminar, Department of Bioagricultural Sciences and Pest Management, (Presenter) Opler, P. A., Colorado State University, BSPM.

September 22, 2013, "Conservation status of Colorado moths", High Country Lepidopterists, Colorado State University, Department of Bioagricultural Sciences and Pest Management, (Presenter) Opler, P. A., Plant Sciences Building, CSU, Fort Collins.

September 18, 2013, "Lepidoptera of Grand Staircase - Escalante National Monument", Research and Management of the Colorado Plateau, University of Northern Arizona, (Presenter) Opler, P. A., University of Northern Arizona, Flagstaff.

May 18, 2013, "Butterflies and Moths of Grand Staircase-Escalante National Monument", Public lecture, Grand Staircase-Escalante National Monument, (Presenter) Opler, P. A., National Monument auditorium, Kanab, Utah.

March 12, 2013, "Incredible species richness of blues (Lepidoptera: Lycaenidae): Owens River Drainage, California", Monthly guest seminar, McGuire Center for Lepidoptera and Conservation, Florida Natural History Museum, Gainesville, Florida, (Presenter) Opler, P. A., McGuire Center for Lepidoptera and Conservation.

2012, "Opler, P.A., R.M. Pyle, J. Chu, and E.M. Opler. Butterflies and Birds observed during a 2011 Nature Tour to China. Boulder Audubon Society. Boulder, Colorado. February 2012."

2012, "Opler, Paul A. California oaks and

allies as evolutionary and ecological islands for leaf-mining Lepidoptera: host individuals and species populations. Denver, Colo. Joint meeting of Lepidopterists' Society and Societas Europaea Lepidopterologica, July 26, 2012."

2012, "Opler, Paul A. Conservation of Colorado moths (Lepidoptera). Denver, Colo., Joint meeting of Lepidopterists' Society and Societas Europaea Lepidopterologica, July 28, 2012."

2011, "Gilligan, T.M. and M.E. Epstein. 2011. Light brown apple moth/European grapevine moth (Tortricidae) Identification Workshop. National Plant Diagnostic National Network Annual Meeting, Berkeley, California (instructor)."

2011, "The 2012 joint meeting of the Lepidopterists' Society and Societas Europaea Lepidopterologica".

**TEACHING:**

<u>Year</u>	<u>Semester</u>	<u>Course No./Title</u>	<u>Cr. Hrs.</u>	<u>Enrollment</u>
2012	Fall	BSPM799 - Dissertation	18	5
2012	Fall	BSPM487 - Internship	18	1
2012	Spring	BSPM799 - Dissertation	18	7
2011	Fall	BSPM799 - Dissertation	18	7
2011	Spring	BSPM594 - Independent Study	3	3
2011	Spring	BSPM698 - Research	18	12
2011	Spring	BSPM798 - Research	18	12
2010	Fall	BSPM698 - Research	18	18
2010	Fall	BSPM798 - Research	18	12
2010	Spring	BSPM698 - Research	18	14
2010	Spring	BSPM798 - Research	18	10
2010	Spring	BSPM699 - Thesis	18	6
2009	Fall	BSPM698 - Research	18	9
2009	Fall	BSPM798 - Research	18	10
2009	Fall	BSPM699 - Thesis	18	7
2009	Spring	BSPM798 - Research	18	10
2008	Fall	BSPM798 - Research	18	11
2008	Spring	BSPM798 - Research	18	10
2007	Fall	BSPM798 - Research	18	8

**Guest Lectures:**

<u>Year</u>	<u>Semester</u>	<u>Course No./Title</u>	<u># of Guest Lectures</u>	<u>Delivery Mode</u>
2016	Fall	Bioag'l Sci & Pest Mgmt-BSPM423/523 - Advanced insect classification	1	Face to Face
2016	Fall	Bioag'l Sci & Pest Mgmt-BSPM403 - Introduction to Insect Classification	1	Face to Face
2015	Fall	Bioag'l Sci & Pest Mgmt-BSPM423/523 - Advanced insect classification	1	Face to Face
2015	Fall	Bioag'l Sci & Pest Mgmt-BSPM403 - Introduction to Insect Classification	2	Face to Face
2014	Fall	Bioag'l Sci & Pest Mgmt-BSPM423/523 - Advanced insect classification	1	Mixed (Hybrid) Face to Face
2014	Fall	Bioag'l Sci & Pest Mgmt-BSPM303A - Introduction to insect classification	1	Mixed (Hybrid) Face to Face
2013	Fall	Bioag'l Sci & Pest Mgmt-BSPM423/523 - Advanced insect classification	1	Face to Face
2013	Fall	Bioag'l Sci & Pest Mgmt-BSPM303A - Introduction to insect classification	2	Face to Face

### **EXTENSION/ENGAGEMENT ACTIVITIES/ACCOMPLISHMENTS**

#### **Presentation**

Butterflies of the Colorado Front Range. Adult, Blackhawk, Colorado. Number of times program was made: 2. Total number of participants: 15. Percent Responsible: 100%. 3rd Quarter 2016.

Introduction to Butterfly Natural History. Adult, Grand Lake, Colorado. Number of times program was made: 2. Total number of participants: 8. Percent Responsible: 100%. 3rd Quarter 2016.

Introduction to Butterfly Natural History. Adult, Estes Park, Colorado. Number of times program was made: 2. Total number of participants: 14. Percent Responsible: 100%. 3rd Quarter 2016.

Butterfly Pollinators of Colorado Buckwheats - Eriogonum. Adult, Loveland, Colorado. Number of times program was made: 1. Total number of participants: 20. Percent Responsible: 100%. 2nd Quarter 2015.

Butterfly Pollinators of Colorado Buckwheats - Eriogonum. Adult, Golden, Colorado. Number of times program was made: 1. Total number of participants: 125. Percent Responsible: 100%. 3rd Quarter 2015.

Introduction to Butterfly Natural History. Adult, Estes Park, Colorado. Number of times program was made: 2. Total number of participants: 30. Percent Responsible: 100%. 3rd Quarter 2015.

Butterfly Pollinators of Colorado Buckwheats - Eriogonum. Adult, Denver, Colorado. Number of times program was made: 1. Total number of participants: 40. Percent Responsible: 100%. 4th Quarter 2015.

#### **Workshop**

Results of 5-year study of Lepidoptera of Grand staircase-Escalante National Monument. Adult, Escalante, Utah. Number of times program was made: 1. Total number of participants: 75. Percent Responsible: 100%. 3rd Quarter 2016.

### **COMMITTEES**

(2011).

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#### **PROFESSIONAL AFFILIATIONS AND ACTIVITIES**

Larimer County Genealogical Society. (December 2010 - Present).

Entomological Society of America. (2010 - Present).

Entomological Society of Washington. (2010 - Present).

Lepidopterists' Society. (2010 - Present).

North American Butterfly Association. (2010 - Present).

Societas Europaea Lepidopterologica. (2010 - Present).

Xerces Society. (2010 - Present).

Officer, Vice President, Wedge Foundaton of Entomological Research, Washington, District of Columbia. (2016 - Present).

Entomological Collections Network, Reno, NV. (2011 - Present).

Entomological Society of America, Reno, NV. (2011 - Present).

Lepidopterists' Society and Societas Europaea Lepidopterologica, Denver, CO. (2011 - Present).

Several. (2011 - Present).

Wedge Entomological Research Foundation, Washington, DC. (2011 - Present).

Member, Entomological Society of America. (2010 - Present).

Member, Entomological Society of Washington. (2010 - Present).



Member, Lepidopterists' Society. (2010 - Present).

Member, North American Butterfly Association. (2010 - Present).

Member, Societas Europaea Lepidopterologica. (2010 - Present).

Member, Xerces Society. (2010 - Present).

Officer, Vice President, The Wedge Entomological Research Foundation, Washington, D.C., District of Columbia. (2002 - Present).

Reviewer, Journal Article, Various entomological publications, various, United States. (January 2017 - December 2017).

Meeting Organizer, High Country Lepidopterists, Fort Collins, Colorado. (December 2, 2017).

Workshop Organizer, High Country Lepidopterists, Fort Collins, CO. (October 2017).

Editor, Senior Editor, Contributions of the C.P. Gillette Museum. (1998 - 2014).

Program Organizer, High Country Lepidopterists, Fort Collins, Colorado. (September 15, 2013 - November 15, 2013).

Contributions of the C.P. Gillette Museum of Arthropod Diversity. (1998 - 2012).

Convener, organizer, and moderator of High Country Lepidopterists 26th annual meeting held at CSU in September. (2010).

Planning committee for 2012 joint meeting of Lepidopterists' Society and Societas Europaea Lepidopterologica in Denver. (2010).

#### **OTHER ACTIVITIES/ACCOMPLISHMENTS – SERVICE/OUTREACH**

Leader and coordinator NSF-funded 4 year Lep-Net project, Gillette Museum of Arthropod Diversity, Fort Collins, Colorado. (July 1, 2016 - June 30, 2020).

Attendee, Meeting, Larimer County Genealogical Society, Fort Collins, Colorado. (September 2012 - Present).

Fort Collins Chapter of National Audubon Society. (2011 - Present).

The Wedge Entomological Research Foundation. (2002 - 2016).

Fort Collins Audubon Society Board. (2011 - 2013).

Program Organizer, High Country Lepidopterists, Fort Collins, Colorado. (April 2013 - September 2013).

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