

## INDEX TO VOLUME 27

## Author Index

- Becker, V. O., 160  
 Beutelspacher B., C. R., 303  
 Blanchard, A., 103, 141, 219, 278  
 Borch, H., 196  
 Brown, L. N., 136, 238  
 Burris, D. L., 84  
 Clarke, C. A., 73  
 Clarke, J. F. Gates, 99, 240, 268  
 Collins, M. M., 225  
 Covell, C. V., Jr., 144, 206  
 Davis, D. R., 159  
 Dimock, T. E., 274  
 Dominick, R. B., 1  
 Downes, J. A., 89  
 Erickson, J. M., 16  
 Ferguson, D. C., 288, 309  
 Ferris, C. D., 57, 112, 279  
 Fisher, M. S., 112, 239  
 Freeman, H. A., 40  
 Godfrey, G. L., 119  
 Goodpasture, C., 109  
 Kean, P. J., 122  
 Masters, J. H., 33, 78, 80, 86, 235  
 Miller, L. D., 310, 311  
 Munroe, E., 290  
 Muyschondt, A., 15, 210, 294, 302  
 Neck, R. W., 22  
 Newcomer, E. J., 13  
 Nicolay, S. S., 243  
 Parks, D. R., 17  
 Perkins, E. M., Jr., 291  
 Platt, A. P., 122  
 Pyle, R. M., 305  
 Rawson, G. W., 206  
 Rehr, S. S., 237  
 Rindge, F. H., 140  
 Sargent, T. D., 8, 175, 312  
 Schmid, F., 196  
 Scott, J. A., 283  
 Selman, C. L., 87  
 Sevastopulo, D. G., 143, 155, 157  
 Shapiro, A. M., 79, 85, 157, 159, 238  
 Sharp, M. A., 17  
 Sheppard, P. M., 73  
 Sibatani, A., 161  
 Smith, A. G., 73  
 Stanford, R. E., 304  
 Straley, G. B., 144  
 Turner, J. R. G., 130, 307  
 Van Buskirk, M. D., 83  
 Wagner, W. H., Jr., 192  
 Welling M., E. C., 154  
 Young, A. M., 258

## Name Index

(New names in **boldface**)

- Acherontia atropos, 143  
 Amblyscirtes aesculapius, 51, 146  
   alternata, 54  
   anubis, 55  
   belli, 54  
   carolina, 51, 146  
   cassus, 47  
   celia, 53  
   elissa, 49  
   eos, 52  
   erna, 47  
   exoteria, 46  
   fimbriata, 56  
   florus, 55  
   fluonia, 49  
   folia, 44  
   immaculatus, 46  
   linda, 48  
   nereus, 52  
   nisulae-pinorum, 46  
   nysa, 52  
   oslari, 48  
   phylace, 55  
   prenda, 50  
   **raphaeli**, 44  
   reversa, 51  
   samoset, 49  
   simius, 46  
   tolteca, 50  
   texanae, 50  
   vialis, 53  
 Amphimoea walkeri, 304  
 Amplypterus donysa, 103  
 Anacamptodes vellivolata, 94  
 Anaea itys, 294  
 Apodemia mormo, 304  
 Appias drusilla, 209  
 Arcyophora sylvatica, 97  
 Argyria nivalis, 94  
 Argyrotaenia quadrifasciana, 94

- Argyrotoxa semipurpurana, 94  
 Ascia monuste, 208  
 Aspilates donataria, 289  
 Asterothrips celtis, 239  
   clyton, 239  
 Atalopedes campestris, 193, 238  
 Atlides halesus, 284, 292  
 Atrytonopsis hiana, 146  
 Battus philenor, 239  
   polydamas, 208, 239  
 Blepharomastix ranalis, 93, 94  
 Boloria selene, 305  
 Caberodes vavadarina, 288  
 Calephelis spp., 240, 241  
 Callionima nomius, 303  
 Callipsyche behrii, 13  
 Callithomia hezia **perija**, 80  
   **skinneri**, 78  
 Callophrys augustinus, 284  
   johnsoni, 284  
   polios, 112  
   polios **obscurus**, 115  
   sheridanii, 279, 282  
 Calpe eustrigata, 97  
   minuticornis, 97  
 Catocala spp., 175  
   relicta, 9, 177  
 Celastrina argiolus, 89, 91, 93  
 Cercyonis pegala ariane, 292  
 Ceratiscada canaria, 264  
 Chlosyne lacinia, 22  
 Choristoneura rosaceana, 94  
 Colias alexandra, 57  
   alexandra **columbiensis**, 68  
   eurytheme, 192  
   philodice, 89, 192  
 Cosymbia pendularia, 11  
 Cressonia juglandis, 304  
 Cynthia annabella, 85, 274  
 Damas **immacula**, 253  
 Danaus chrysippus, 73  
   gilippus berenice, 208, 239  
   gilippus strigosus, 292  
   plexippus, 92  
 Desmia funeralis, 89, 94  
 Dircenna relata, 258  
 Dryas iulia iulia, 302  
   iulia cillene, 208  
 Emariannia cucullidea, 105  
 Episcepsis inornata, 103  
 Eriopyga mulina, 103  
 Erora laeta quaderna, 285  
 Erynnis lucilius, 89  
   zarucco, 239  
 Euchlaena johnsonaria, 94  
 Eumaroza **beckeri**, 269  
   eleanthes, 271  
   malachitana, 268  
 Eunica tatila tatilista, 208  
 Euphyes dion alabamae, 146  
   dion dion, 146  
   dukesi, 146  
   palatka, 146  
 Euphyia centrostrigaria, 94  
 Eupithecia misturata frostiata, 94  
 Euptychia gemma, 239  
   hermes sosybia, 239  
 Eurema lisa, 292  
 Euthisanotia grata, 93, 94  
 Euxoa xasta, 103  
 Evergestis consimilis, 107  
 Feniseca tarquinius, 89, 90, 91, 92  
 Givira redtenbacheri, 109  
 Glenoides **lenticuligera**, 141  
   texanaria, 140, 143  
 Glympis concors, 107  
 Godyrus caesiopicta, 261  
 Gonodonta sinaldus, 105  
 Graphium marcellus, 239  
 Harkenclenus titus, 89, 91  
 Heliconius aoede aoede, 131  
   charitonius tuckeri, 208, 239  
   demeter spp., 130, 133, 134  
   egeria homogenea, 131  
   elevatus spp., 130, 132  
   erato spp., 130, 131  
   eratoformis, 135  
   melpomene, 130  
 Hemiargus ammon bethunebakeri, 208  
   ceranus zachaeina, 292  
 Herpetogramma pertextalis, 94  
 Hesperia leonardus, 148, 193  
   metea, 148  
   pahaska, 239  
   viridis, 239  
 Hyalophora cecropia, 226, 240  
   colombia, 226, 240  
   euryalus, 225  
   gloveri, 225  
   "kasloensis," 225  
 Hydria prunivorata, 93, 94  
 Hylephila phylaeus, 238  
 Hymenitis nero, 262, 264  
 Incisalia eryphon, 13  
   fotis, 13  
 Iscandia daemonalis, 105  
 Isoparce cupressi, 1, 83  
 Itame argillacea-occiduvaria, 389  
   exaospiciata, 94  
   varadaria, 288

- Kricogonia lyside castalia*, 292  
*Laspeyresia pomonella*, 122  
*Lerodea eufala*, 238  
*Lethe appalacia*, 238  
*Leuconycta diptheroides*, 94  
*Libytheana bachmanni larvata*, 292  
*Limenitis archippus*, 89, 123, 239  
   *arthemis*, 91, 123  
   *astyanax*, 123  
   *lorquini*, 127  
   *weidemeyerii*, 127  
*Lobocraspis griseifusa*, 97  
*Loxagrotis kyune*, 119  
*Lycaena dispar*, 206  
   *helloides*, 79  
   *phlaeas*, 89, 90, 91  
*Macaria inapta*, 288  
*Manduca sexta*, 122  
*Marpesia petreus*, 209  
*Matigramma psegmapteryx*, 105  
*Mechanitis isthmia*, 261, 265  
*Mecyna submedialis*, 94  
*Megathymus yuccae*, 144  
*Meropleon titan*, 105  
*Metamorpha elissa*, 235  
*Mocis undata*, 97  
*Myscelia ethusa*, 292  
*Napeogenes tolosa amara*, 262  
*Nematocampa limbata*, 94  
*Neophanis respondens*, 105  
*Nymphalis antiopa*, 193  
   *milberti*, 193  
*Ochlodes sylvanoides*, 238  
*Oeneis chryxus*, 287  
   *uhleri*, 287  
*Ornithoptera priamus*, 196  
*Orthogramma prona*, 105  
*Ouleus dilla baru*, 243  
*Pamba boyaca*, 249  
*Panoquina ocola*, 146  
   *panoquin*, 145  
*Pantographa limata*, 94  
*Papias trimacula*, 249  
*Papilio andraemon bonhotei*, 136  
   *aristodemus ponceanus*, 136, 206  
   *creosphontes*, 207, 208, 239, 292  
   *glaucus*, 239  
   *polyxenes*, 16, 192, 237, 239  
*Pentobesa valta*, 107  
*Phigalia titea*, 10  
*Phoebis agarithe maxima*, 208  
*Phyciodes frisia*, 208  
   *phaon*, 292  
   *tharos*, 89, 91, 239  
*Phyrxos caicus*, 303  
*Pieris rapae*, 89  
*Pingasa chlora crenaria*, 96  
*Platyptilia pallidactyla*, 94  
*Plebejus acmon*, 109  
   *acmon lutzi*, 282  
   *lupini* spp., 11, 109, 111  
   *neurona*, 109  
   *saepiolus*, 17  
*Poanes yehl*, 146  
*Polites mystic*, 89  
   *peckius*, 89  
   *sabuleti*, 238  
   *themistocles*, 89  
*Polygonia comma*, 89, 91, 193  
   *interrogationis*, 193, 239  
   *leo*, 209  
*Polygrammodes sanguinalis*, 107  
*Precis lavinia*, 193  
*Prepona omphale octavia*, 210, 301  
*Problema bulenta*, 144  
**Profilinota phillita**, 101  
*Pteronymia notilla*, 262, 264  
*Pyrausta orphrisalis*, 89, 94  
*Pyrgus oileus*, 239  
*Radara anartoides*, 107  
*Rhescipha servia*, 107  
*Satyrium calanus*, 239  
   *caryaevorus*, 144  
   *kingi*, 144  
   *saepium*, 283  
*Scopula ancillata*, 94  
   *enucleata*, 94  
*Scordylia atalanta*, 107  
*Siegela basipunctaria*, 105  
*Siproeta epaphus gadoui*, 235  
   *epaphus trayja*, 235  
   *stelenes* spp., 237  
   *superba* spp., 237  
*Smyrna karwinskii*, 15  
*Sparganthis* sp., 94  
*Speyeria atlantis dodgei*, 292  
   *cybele*, 89, 292  
   *mormonia erinna*, 292  
*Sphinx juglandis*, 304  
*Staphylus mazans hayhurstii*, 148  
*Strymon saepium*, 14  
*Syntomeida melanthus*, 103  
*Tarachidia erastrioides*, 93, 94  
*Tephrosia texanaria*, 140, 141  
*Thespius inez*, 255  
*Thymelicus lineola*, 144, 148  
*Tosta sapsaoa*, 245  
**Triozosneura dorsonotata**, 222  
*Urbanus proteus*, 239

*Vanessa atalanta*, 239, 274  
*virginiensis*, 89  
*Vettius chagres*, 251  
*Virga paraiba*, 247

*Wallengrenia otho*, 89, 148, 208, 239  
*Xanthotype urticaria*, 94  
*Xystrota rubromarginaria*, 94  
*Zerene cessionia*, 292

## Subject Index

- Aberrations, 79, 238  
 Acraeidae, 169  
 Agaristidae, 95  
 Amathusiidae, 168  
 Arctiidae, 95  
 Behavior,  
   communal resting, 15  
   copulatory behavior, 291  
   cryptic moths, 8, 175  
   down valley flight, 283  
   feeding at puddles, dung and carrion,  
   90  
   habitat selection, 17  
   larval behavior, 261  
 Book reviews, of,  
   Commons, I. F. B. and Waterhouse,  
   D. F., 310  
   Heath, J., 307  
   Howarth, T. G., 307  
   Owen, D. F., 86  
   Tietz, Harrison M., 309  
 Chromosome numbers, 109  
 Collections,  
   Dennis, 33  
   Issiki, 159  
   McAlpine, 240  
   Newcomer, 241  
   Vallin, 241  
 Conservation, 137, 206  
 Cossidae, 103  
 Ctenuchidae, 103  
 Danaidae, 36, 73, 167, 192  
 Genetics, 73  
 Genitalia (illustrations), 45, 82, 101, 142,  
   221, 223, 246, 252, 254, 271, 272  
 Geometridae, 10, 13, 95, 140, 141, 288  
 Heliconiidae, 302  
 Hesperiidae, 35, 40, 145, 167, 238, 239,  
   343  
 Hybridization, 231, 274  
 Ithomiidae, 78, 80, 168, 258  
 Karl Jordan Medal, 311  
 Keys, 40, 82  
 Larval foodplants,  
   *Anaea (Zaretis) itys*, 296  
   *Brephidium exilis*, 157  
   *Callophrys sheridanii neoperplexa*, 282  
   *Callophrys sheridanii sheridanii*, 279  
   *Chlosyne lacinia*, 22  
   *Colias alexandra*, 59  
   *Dircenna relata*, 261  
   *Isoparce cupressi*, 1, 83  
   *Loxagrotis kyune*, 119  
   *Papilio polyxenes*, 237  
   *Plebejus (Icaricia) acmon lutzi*, 282  
   *Prepona omphale octavia*, 210  
 Libytheidae, 169  
 Life histories,  
   *Anaea (Zaretis) itys*, 294  
   *Callipsyche behrii*, 13  
   *Callophrys sheridanii sheridanii*, 279  
   *Dircenna relata*, 258  
   *Dryas iulia iulia*, 302  
   *Incisalia eryphon*, 13  
   *Incisalia fotis*, 13  
   *Isoparce cupressi*, 1, 83  
   *Ornithoptera priamus boisduvali*, 196  
   *Ornithoptera priamus caelestis*, 196  
   *Ornithoptera priamus demophanes*, 196  
   *Prepona omphale octavia*, 210  
   *Strymon saepium*, 14  
 List, state, 84, 144, 239  
 Lycaenidae, 17, 39, 79, 109, 150, 157,  
   159, 169, 279, 283  
 Megathymidae, 145  
 New genera, 49, 160, 219, 224  
 New records (range extensions)  
   *Aeschropteryx olivata*, 107  
   *Amblyscirtes aesculapis*, 146  
   *Amblyscirtes carolina*, 146  
   *Amphimoea walkeri*, 304  
   *Amphypterus donysa*, 103  
   *Anartia jatrophae guantanamo*, 85  
   *Apodemia mormo*, 304  
   *Appias drusilla neumoenigii*, 85  
   *Atlides halesus*, 152  
   *Atrytonopsis hianna*, 146  
   *Calephelis virginiensis*, 148  
   *Callophrys augustinus croesiodes*, 152  
   *Callophrys henria*, 151  
   *Callophrys irus*, 151  
   *Colias eurytheme*, 148

- Cressonia juglans*, 304  
*Emarianna cucullidea*, 150  
*Episcepsis inornata*, 103  
*Eriopyga mulina*, 103  
*Erora laeta*, 152  
*Euphyes dion dion*, 146  
*Euphyes dukesi*, 146  
*Euphyes palatka*, 146  
*Euptychia cymela viola*, 85  
*Euptychia gemma gemma*, 85  
*Euristrymon ontario*, 152  
*Euxoa xasta*, 103  
*Evergestis consimilis*, 107  
*Givira redtenbacheri*, 109  
*Glympis concors*, 107  
*Gonodonta sinaldus*, 105  
*Harkenclenus titus mopsus*, 150  
*Herminodes stigmaphiles*, 105  
*Hesperia leonardus*, 148  
*Hesperia metea*, 148  
*Hesperia pahaska martini*, 239  
*Iscadia daemonialis*, 105  
*Kricogonia lysida*, 85  
*Lethe appalachia*, 153, 238  
*Lethe portlandia anathedon*, 153  
*Matigramma psegmapteryx*, 105  
*Megathymus yuccae*, 145  
*Meropleon titan*, 105  
*Neophanis respondens*, 105  
*Orthogramma prona*, 105  
*Panoquina ocola*, 146  
*Panoquina panoquin*, 145  
*Panthiades m-album*, 152  
*Phescipha servia*, 105  
*Phoebis statira floridensis*, 85  
*Phycoides frisia frisia*, 85  
*Poanes yehl*, 146  
*Polygonus leo*, 85  
*Polygrammodes sanguinalis*, 107  
*Problema bulenta*, 146  
*Problema byssus*, 84  
*Radara anartoides*, 107  
*Satyrium calanus falacer*, 151  
*Satyrium caryaevorus*, 151  
*Satyrium edwardsii*, 151  
*Satyrium kingi*, 151  
*Satyrium liparops strigosa*, 151  
*Scordylia atalanta*, 107  
*Sigela basipunctaria*, 105  
*Speyeria diana*, 152  
*Staphylus mazans hayhursti*, 84, 148  
*Syntomeida melanthus*, 103  
*Thymelicus lineola*, 148  
*Urbanus dorantes dorantes*, 84  
*Urbanus proteus* Linnaeus, 148  
*Wallgrenia otho otho*, 148  
 New species, 44, 78, 102, 141, 222, 224, 245, 247, 249, 251, 253, 255, 269  
 New subspecies  
     *Callithomia (Callithomia) hezia perija*, 80  
     *Callophrys (Incisalia) polios obscurus*, 112  
     *Colias alexandra columbiensis*, 68  
     *Ouleus dilla baru*, 243  
 Noctuidae, 9, 95, 103, 119, 175  
 Notes and news, 86, 241, 278, 311  
 Notodontidae, 95, 103  
 Nymphalidae, 15, 22, 37, 85, 96, 122, 130, 152, 159, 169, 210, 235, 274, 291, 294, 305  
 Obituary, 87  
 Oecophoridae, 99  
 Olethreutidae, 268  
 Orchid attractant, 192  
 Papilionidae, 16, 36, 95, 136, 155, 167, 196, 206, 237  
 Pieridae, 36, 57, 148, 154, 167  
 Polymorphism,  
     *Anaea (Zaretis) itys*, 296  
     *Catocala* spp., 176  
     *Danaus chrysippus*, 73  
 Population distributions,  
     *Callophrys (Incisalia) polios*, 112  
     *Colias alexandra*, 57  
     *Papilio andraemon bonhotei*, 136  
     *Plebejus saepiolus*, 17  
 Predation  
     by ants, 196  
     by arachnids, 83  
     by birds, 16, 175  
     by midges, 143  
     by heteroptera, 305  
     on catocala, 175  
 Pupal color, 155  
 Pyralidae, 95, 103, 160, 219, 290  
 Riodimidae, 149, 240, 304  
 Saturniidae, 225  
 Satyridae, 37, 95, 153, 168, 238, 291  
 Sex ratios, 19  
 Sphingidae, 1, 83, 103, 303  
 Taxonomy and systematics  
     *Amblyscirtes*, 40  
     *Colias alexandra*, 68  
     *Eumarozia elaeathanes*, 271  
     *Eumarozia malchitana*, 268  
     *Glenoides texanaria*, 140  
     *Heliconia*, 130

Hyalophora columbia, 225  
Itame varadaria, 288  
Macaria inapta, 288  
Metomorpha, 235  
Ornithoptera priamus, 196  
Siproeta epaphus gadoui, 235

Techniques  
    background selection, 9  
    sexing of larvae and pupae, 122  
Thyridae, 95  
Uraniidae, 95  
U.V. reflectance, 57