

# INDEX TO VOLUME 65 OF THE JOURNAL OF CAVE & KARST STUDIES

IRA D. SASOWSKY, ELAINE SINKOVICH, & MEGAN D. CURRY

*Department of Geology, University of Akron, Akron, OH 44325-4101, USA*

KEITH D. WHEELAND

*2191 Mountain View Ave., State College, PA 16801*

This index covers all articles and abstracts published in volume 65 numbers 1, 2, & 3, including selected abstracts from the 2003 Society meeting in Porterville, California.

The index has three sections. The first is a **Keyword** index, containing general & specific terms from the title & body of an article. This includes cave names, geographic names, etc. The second section is a **Biologic** names index. These terms are Latin names of organisms discussed in articles. For articles containing extensive lists of organisms, indexing was conducted at least to the level of Order. The third section is an alphabetical **Author** index. Articles with multiple authors are indexed for each author, & each author's name was cited as given.

Citations include only the name of the author, followed by the page numbers. Within an index listing, such as "Bats", the earliest article is cited first.

## KEYWORD INDEX

- 1919 Flow**  
Halliday, W.R., 189
- 3D**  
am Ende, B., & Nyland, L.S., 180
- ABC Cave**  
Self, C.A., & Hill, C.A., 130-151
- Abuse**  
Rogers, B.W., Snyder, D., Haye, M., & Randall, I.E., 178
- Acid**  
Galdenzi, S., & Maruoka, T., 111-125
- Actun Kanaa**  
Veni, G., 180
- Africa**  
Peck, S.B., & Thayer, M.K., 3-8
- Age**  
Kempe, S., & Werner, M.S., 53-67  
Galdenzi, S., & Maruoka, T., 111-125  
Curry, M.D., Sasowsky, I.D., & Shank, D.A., 184  
Ersek, V., Mylroie, J.E., Panuska, B., & Mylroie, J.R., 184-185  
Kambesis, P.N., & Sasowsky, I.D., 186  
Polyak, V.J., Rasmussen, J.B.T., & Asmerom, Y., 187  
Queen, J.M., 187
- Aggregates**  
Self, C.A., & Hill, C.A., 130-151
- Aguijan**  
Stafford, K.W., Taborosi, D., Keel, T.M., Mylroie, J.E., Mylroie, J.R., & Jenson, J.W., 179-180  
Keel, T.M., Stafford, K.W., Mylroie, J.E., Mylroie, J.R., & Jenson, J.W., 186  
Stafford, K.W., Keel, T.M., Mylroie, J.E., Mylroie, J.R., & Jenson, J.W., 188
- Airflow**  
Pflitsch, A., & Piasecki, J., 160-173
- AJs Chasm**  
Pisarowicz, J., Snow, A., & Lester, D., 182
- Alabama**  
Peck, S.B., & Thayer, M.K., 3-8  
Zeppelini, D., & Christiansen, K., 36-42  
Buhay, J., Fetzner, Jr., J., & Crandall, K., 174  
Kambesis, P.N., & Sasowsky, I.D., 186
- Algae**  
Reece, M.A., 176
- Allophane**  
Kempe, S., Bauer, I., & Henschel, H., 76-85
- Altar Cave**  
Florea, L.J., Mylroie, J.E., & Price, A., 185
- Alunite**  
Queen, J.M., 187
- Amberat**  
Rogers, B.W., 188
- Amphipod Hall Cave**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Andes**  
McKenzie, I., 179
- Andys Run Cave**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Anemometers**  
Pflitsch, A., & Piasecki, J., 160-173
- Annual**  
Polyak, V.J., Rasmussen, J.B.T., & Asmerom, Y., 187
- Antes Creek**  
Espinasa, L., & Jeffery, W.R., 93-100
- Antholites**  
Self, C.A., & Hill, C.A., 130-151
- Anthropology**  
Chowdhury, A., 176
- Antler Cave**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Apennine Mountains**  
Galdenzi, S., & Maruoka, T., 111-125
- Appalachian Mountains**  
Nieves-Rivera, A.M., 22-28  
Espinasa, L., & Jeffery, W.R., 93-100
- Aragonite**  
Self, C.A., & Hill, C.A., 130-151
- ArcGIS**  
Ohms, R., 183
- Archaeology**  
Chowdhury, A., 176  
Ohms, M.J., 176  
Crothers, G., Ward, R., & Swedlund, C., 176-177  
Willey, P., Stolen, J., Crothers, G., & Watson, P.J., 177-178  
Coons, D., 190
- ArcPAD GIS**  
Addison, A., 182
- Arizona**  
Zeppelini, D., & Christiansen, K., 36-42  
Self, C.A., & Hill, C.A., 130-151
- Arkansas**  
Peck, S.B., & Thayer, M.K., 3-8  
Zeppelini, D., & Christiansen, K., 36-42
- Arnahellir Cave**  
Halliday, W.R., 190
- Art**  
Simek, J.F., & Cressler, A., 177  
Veni, G., 180
- Asia**  
Espinasa, L., & Jeffery, W.R., 93-100
- Atacama**  
Fryer, S., Despaigne, J., Downey, K., & Walck, C., 179
- Augite**  
Kempe, S., & Werner, M.S., 53-67  
Kempe, S., Bauer, I., & Henschel, H., 76-85
- Australia**  
White, W.B., & White, E.L., 43-52  
Douglas, J.C., 189
- Austria**  
Self, C.A., & Hill, C.A., 130-151
- Autogenic sedimentation**  
Florea, L.J., Mylroie, J.E., & Price, A., 185
- Azores**  
Halliday, W.R., 68-75
- Bacteria**  
Spilde, M.N., Boston, P.J., & Northup, D.E., 188
- Bahamas**  
Florea, L.J., Mylroie, J.E., & Price, A., 185
- Bahamian**  
Ersek, V., Mylroie, J.E., Panuska, B., & Mylroie, J.R., 184-185
- Bailey, Zeldia Chapman**  
Hose, L.D., Bailey, Z.C., Land, L., & Boston, P.J., 185
- Bakers Cave**  
Zeppelini, D., & Christiansen, K., 36-42
- Balcones Fault Zone**  
Lindley, A.L., & Hovorka, S.D., 186
- Banding**  
Polyak, V.J., Rasmussen, J.B.T., & Asmerom, Y., 187
- Barefoot Saltpetre Cave**  
Despain, J., 181
- Basalt**  
Coons, D., 189
- Bat counts**  
Halliday, W.R., 175
- Bat Love Cave**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Bat Sump Cave**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Bats**  
Zawada, M., 180  
Rogers, B.W., Despaigne, J., Frantz, W., & Portillo, J., 187-188  
Grady, F., & Hubbard, Jr., D.A., 190
- Beards**  
Self, C.A., & Hill, C.A., 130-151
- Beetles**  
Peck, S.B., & Thayer, M.K., 3-8
- Belle Fontains Spring**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Bicklein Cave**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Big Bear Cave**  
Schubert, B.W., & Kaufmann, J.E., 101-110
- Big Bend National Park**  
Veni, G., 189
- Big Clifty Sandstone**  
White, W.B., & White, E.L., 43-52
- Biodiversity**  
Elliott, W.R., 174
- Biofilm**  
Galdenzi, S., & Maruoka, T., 111-125  
Engel, A.S., Stern, L.A., & Bennett, P.C., 184
- Biogeography**  
Elliott, W.R., Rudolph, D.C., Ubick, D., Briggs, T., & Reddell, J.R., 174  
Elliott, W.R., 174  
Krejca, J.K., 174-175  
Schneider, K., & Culver, D.C., 175
- Biology**  
Peck, S.B., & Thayer, M.K., 3-8  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21  
Nieves-Rivera, A.M., 22-28  
Zeppelini, D., & Christiansen, K., 36-42  
Espinasa, L., & Jeffery, W.R., 93-100  
Schubert, B.W., & Kaufmann, J.E., 101-110  
Galdenzi, S., & Maruoka, T., 111-125  
Buhay, J., Fetzner, Jr., J., & Crandall, K., 174  
Elliott, W.R., Rudolph, D.C., Ubick, D., Briggs, T., & Reddell, J.R., 174  
Elliott, W.R., 174  
Hobbs, III, H.H., & Lawyer, R., 174  
Krejca, J.K., 174-175  
Porter, M.L., Perez Gonzalez, A., & Perez-Losada, M., 175  
Schneider, K., & Culver, D.C., 175  
Taylor, S.J., Wilhelm, F.M., Venarsky, M.P., & Adams, G.L., 175  
Halliday, W.R., 175  
Schaper, J.A., & Wicks, C.M., 188  
Polyak, V.J., & Provencio, P.P., 190  
Sowers, J., Frantz, P., Frantz, B., & Devereaux, B., 190
- Birnessite**  
Rogers, B.W., 188
- Bit Drops**  
Bixby, R.L., & Sasowsky, I.D., 183
- Black Chasm**  
Bosted, A., 178
- Blind**  
Porter, M.L., Perez Gonzalez, A., & Perez-Losada, M., 175
- Blind Pockets**  
Queen, J.M., 187
- Block Crystals**  
Self, C.A., & Hill, C.A., 130-151
- Blue Rock**  
Kempe, S., & Werner, M.S., 53-67
- Bobcat Blowhole**  
Pisarcby, M., 182
- Boneyard**  
Queen, J.M., 187
- Bottomless Lakes State Park**  
Hose, L.D., Bailey, Z.C., Land, L., & Boston, P.J., 185
- Bower Cave**  
Bosted, A., 178

- Boyden Cavern**  
Bosted, A., 178
- Branching Aggregates**  
Self, C.A., & Hill, C.A., 130-151
- Branchwork**  
Dom, J.E., & Wicks, C.M., 155-159
- Breakdown**  
White, W.B., & White, E.L., 43-52  
Jameson, R.A., 186
- Browns II Cave**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Bubble Trail**  
Galdenzi, S., & Maruoka, T., 111-125
- Buco Cattivo**  
Galdenzi, S., & Maruoka, T., 111-125
- Burial**  
Hubbard, Jr., D.A., 177
- Burro Mesa Riebeckite Rhyolite**  
Veni, G., 189
- California**  
Zeppelini, D., & Christiansen, K., 36-42  
Self, C.A., & Hill, C.A., 130-151  
Elliott, W.R., Rudolph, D.C., Ubick, D., Briggs, T., & Reddell, J.R., 174  
Bosted, A., 178  
Bosted, P., 178; 180-181  
Potter, M., 178  
Rogers, B.W., Snyder, D., Haye, M., & Randall, I.E., 178  
Szukalski, B., 178  
Rogers, B.W., Despaign, J., Frantz, W., & Portillo, J., 187-188  
Rogers, B.W., 188  
Tinsley, J.C., Hess, J.W., Cowan, D., Hurr, H., & Farr, W., 189  
Douglas, J.C., 189
- California Cavern**  
Bosted, A., 178
- Camden County**  
Hall, M.D., 182
- Cameron Cave**  
Dom, J.E., & Wicks, C.M., 155-159
- Camp Vandeventer karst wind**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Camp Vandeventer Spring**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Camuy River**  
Nieves-Rivera, A.M., 22-28
- Canary Islands**  
Peck, S.B., & Thayer, M.K., 3-8
- Caney Fork River**  
Deatrick, J., Hoffelt, J., & Anderson, W.S., 184
- Caney Mountain**  
Elliott, W.R., 174
- Carbon dioxide**  
Schaper, J.A., & Wicks, C.M., 188  
Halliday, W.R., 189
- Carbonate Island Karst Model**  
Keel, T.M., Stafford, K.W., Mylroie, J.E., Mylroie, J.R., & Jenson, J.W., 186  
Stafford, K.W., Keel, T.M., Mylroie, J.E., Mylroie, J.R., & Jenson, J.W., 188
- Carbonate Islands**  
Ersek, V., Mylroie, J.E., Panuska, B., & Mylroie, J.R., 184-185
- Carroll Cave**  
Frantz, E., 181  
Hall, M.D., 182
- Carter Caves State Resort Park**  
Hobbs, III, H.H., & Lawyer, R., 174
- Carter County**  
Hobbs, III, H.H., & Lawyer, R., 174
- Cartography**  
am Ende, B., & Nyland, L.S., 180  
Andreatta, D., 180  
Bosted, P., 180  
Coke, IV, J.G., 181  
Green, D., 181  
Passerby, M., 181  
McKenzie, D., & Veni, G., 183
- Cathedral Cave**  
Nieves-Rivera, A.M., 22-28
- Cave of The Swirling Mists**  
Davis, D.G., & Luiszer, F.G., 184
- Cave of The Winding Stair**  
Szukalski, B., 178
- Cave of The Winds**  
Davis, D.G., & Luiszer, F.G., 184
- Cave pearls**  
Pisarowicz, J., & Snow, A., 179
- Cave Protection Act**  
Hubbard, Jr., D.A., 177
- Cave use**  
Chowdhury, A., 176  
Douglas, J.C., 177  
Hubbard, Jr., D.A., 177  
King, L., 177  
Simek, J.F., & Cressler, A., 177  
Smith, M.O., 177  
Willey, P., Stolen, J., Crothers, G., & Watson, P.J., 177-178
- Cave-Inhabiting**  
Peck, S.B., & Thayer, M.K., 3-8
- Caves.com Cave**  
Passerby, M., 182
- Cedar Ridge Cave**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Cedars Natural Area Preserve**  
Fagan, J.E., 185
- Ceiling pendants**  
Queen, J.M., 187
- Cellar**  
Self, C.A., & Hill, C.A., 130-151
- Cement Hollow Spring**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Cerro Rabon**  
Andrews, C., 179
- Chandeliers**  
Self, C.A., & Hill, C.A., 130-151
- Chemoautotrophic microorganisms**  
Galdenzi, S., & Maruoka, T., 111-125
- Chile**  
Fryer, S., Despaign, J., Downey, K., & Walck, C., 179
- Chip breakdown**  
White, W.B., & White, E.L., 43-52
- Cincinnati**  
Applegate, P., 126-129
- Citation**  
White, W.B., 91-92
- Civil War**  
Smith, M.O., 177
- Clara Cave**  
Nieves-Rivera, A.M., 22-28
- Classic**  
Davis, D.G., & Luiszer, F.G., 184  
Florea, L.J., Mylroie, J.E., & Price, A., 185  
Jameson, R.A., 186  
Schaper, J.A., & Wicks, C.M., 188  
Tinsley, J.C., Hess, J.W., Cowan, D., Hurr, H., & Farr, W., 189
- Clay**  
Kempe, S., Bauer, I., & Henschel, H., 76-85  
Schubert, B.W., & Kaufmann, J.E., 101-110  
Veni, G., 189
- Clay drawings**  
Veni, G., 180
- Closed caves**  
Frantz, E., 181
- Coal Trace Cave**  
Despaign, J., 181
- Collapse**  
White, W.B., & White, E.L., 43-52
- Collier Spring**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Colorado**  
Zeppelini, D., & Christiansen, K., 36-42  
Davis, D.G., & Luiszer, F.G., 184  
Medville, D., & Medville, H., 190
- Commercial caves**  
Galdenzi, S., & Maruoka, T., 111-125  
Pflitsch, A., & Piasecki, J., 160-173  
Reece, M.A., 176  
Crothers, G., Ward, R., & Swedlund, C., 176-177  
Bosted, A., 178
- Communication**  
Pease, B.L., 178-179
- Compass**  
Andreatta, D., 180
- Compass readings**  
Green, D., 181
- Complex individuals**  
Self, C.A., & Hill, C.A., 130-151
- Computers**  
am Ende, B., & Nyland, L.S., 180  
Passerby, M., 181  
Addison, A., 182  
McKenzie, D., & Veni, G., 183
- Ohms, R., 183  
Paylor, R., Florea, L., Caudill, M., & Currens, J., 183  
Roth, M., Zellner, K., & Mylroie, J., 188
- Concretions**  
Davis, D.G., & Luiszer, F.G., 184
- Condensation**  
Engel, A.S., Stern, L.A., & Bennett, P.C., 184
- Condensation corrosion**  
Galdenzi, S., & Maruoka, T., 111-125
- Conservation**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21  
Halliday, W.R., 68-75  
Espinosa, L., & Jeffery, W.R., 93-100  
Pflitsch, A., & Piasecki, J., 160-173  
Halliday, W.R., 175  
Hose, L.D., & Boston, P.J., 175  
Ohms, R.J., 176  
Queen, J.M., 176  
Horrocks, R.D., & Reece, M.A., 176  
Reece, M.A., 176  
King, L., 177  
Willey, P., Stolen, J., Crothers, G., & Watson, P.J., 177-178  
Rogers, B.W., Snyder, D., Haye, M., & Randall, I.E., 178  
Downey, K., 179  
Fagan, J.E., 185
- Contour interval**  
Applegate, P., 126-129
- Convection**  
Queen, J.M., 187
- Coon-in-the-Crack Cave**  
Hobbs, III, H.H., & Lawyer, R., 174
- Copper Mine**  
Self, C.A., & Hill, C.A., 130-151
- Corallites**  
Self, C.A., & Hill, C.A., 130-151
- Cordillera de la Sal**  
Fryer, S., Despaign, J., Downey, K., & Walck, C., 179
- Core spherulites**  
Self, C.A., & Hill, C.A., 130-151
- Corryville Member**  
Applegate, P., 126-129
- Cotton**  
Self, C.A., & Hill, C.A., 130-151
- Couchs Cave**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Crabs**  
Porter, M.L., Perez Gonzalez, A., & Perez-Losada, M., 175
- Crayfish**  
Buhay, J., Fetzner, Jr., J., & Crandall, K., 174  
Porter, M.L., Perez Gonzalez, A., & Perez-Losada, M., 175
- Cricket**  
Hobbs, III, H.H., & Lawyer, R., 174
- Crimea**  
Self, C.A., & Hill, C.A., 130-151
- Cristobalite**  
Rogers, B.W., 188
- Crustaceans**  
Porter, M.L., Perez Gonzalez, A., & Perez-Losada, M., 175
- Crusts**  
Galdenzi, S., & Maruoka, T., 111-125  
Engel, A.S., Stern, L.A., & Bennett, P.C., 184  
Polyak, V.J., & Provencio, P.P., 190
- Crystallites**  
Self, C.A., & Hill, C.A., 130-151
- Crystallites**  
Self, C.A., & Hill, C.A., 130-151
- Cueva Charco**  
Oliphant, M., & Pistole, N., 179
- Cueva Cheve**  
Stone, B., 180
- Cueva del Aleman**  
Ersek, V., Mylroie, J.E., Panuska, B., & Mylroie, J.R., 184-185
- Cueva del Nacimiento**  
Self, C.A., & Hill, C.A., 130-151
- Cueva del Tecolote**  
Addison, A., 179  
Addison, A., 182
- Cuguilla Cave**  
Self, C.A., & Hill, C.A., 130-151
- Cultural**  
Chowdhury, A., 176
- Crothers, G., Ward, R., & Swedlund, C., 176-177  
Douglas, J.C., 177  
Hubbard, Jr., D.A., 177  
King, L., 177  
Simek, J.F., & Cressler, A., 177  
Smith, M.O., 177  
Willey, P., Stolen, J., Crothers, G., & Watson, P.J., 177-178
- Cultural landscape survey**  
Horrocks, R.D., & Reece, M.A., 176
- Cumberland Plateau**  
Buhay, J., Fetzner, Jr., J., & Crandall, K., 174
- Cumberland Plateau Escarpment**  
Kambesis, P.N., & Sasowsky, I.D., 186
- Cupolas**  
Galdenzi, S., & Maruoka, T., 111-125
- Cupp-Coutunn Cave**  
Self, C.A., & Hill, C.A., 130-151
- Curved plates**  
White, W.B., & White, E.L., 43-52
- Czech Republic**  
Self, C.A., & Hill, C.A., 130-151  
Pflitsch, A., & Piasecki, J., 160-173
- Damden County**  
Hall, M.D., 182
- Danes Annex Cave**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Danes Cave**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Danes/Pautler Cave System**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Dardanelles**  
Potter, M., 178
- Darwin, Charles**  
Grady, F., 189
- Dashed Hopes Pit Cave**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Database**  
Elliott, W.R., 174
- Dating**  
Curry, M.D., Sasowsky, I.D., & Shank, D.A., 184  
Ersek, V., Mylroie, J.E., Panuska, B., & Mylroie, J.R., 184-185  
Kambesis, P.N., & Sasowsky, I.D., 186  
Polyak, V.J., Rasmussen, J.B.T., & Asmerom, Y., 187  
Queen, J.M., 187
- De Los Santos/Braceros Cave**  
Nieves-Rivera, A.M., 22-28
- Deels Hole**  
Passerby, M., 182
- Deep Creek**  
Grgich, P., & Hammack, R., 185
- Delineations**  
Moss, P.L., 187
- DeltaSphere-3000**  
am Ende, B., & Nyland, L.S., 180
- Depression density**  
Denizman, C., 29-35
- Desert**  
Szukalski, B., 178
- Detection**  
Applegate, P., 126-129
- Detection Limits**  
Applegate, P., 126-129
- Devils Kitchen**  
Pisarowicz, J., Snow, A., & Lester, D., 182  
Halliday, W.R., 189
- Digging**  
Frantz, E., 181  
Passerby, M., 182
- Digital mapping**  
Applegate, P., 126-129  
am Ende, B., & Nyland, L.S., 180  
Addison, A., 182  
Glennon, A., 182-183  
McDonough, F., 183  
McKenzie, D., & Veni, G., 183  
Ohms, R., 183  
Paylor, R., Florea, L., Caudill, M., & Currens, J., 183
- Dirks Cave**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Discospherulites**  
Self, C.A., & Hill, C.A., 130-151

**Distribution**

Peck, S.B., & Thayer, M.K., 3-8  
 Denizman, C., 29-35  
 Zeppelini, D., & Christiansen, K., 36-42

**Diving**  
 Coke, IV, J.G., 178  
 Pease, B.L., 178-179

**DJUV Map Encoding**  
 Passerby, M., 181

**Donathite**  
 Kempe, S., & Werner, M.S., 53-67

**Drainage density**  
 Glennon, A., 182-183

**Drilled voids**  
 Bixby, R.L., & Sasowsky, I.D., 183

**Drilling**  
 Frantz, E., 181

**Duck Creek Lava Tube**  
 Halliday, W.R., 68-75

**Dumps**  
 Halliday, W.R., 68-75

**Dupo Quarry Spring**  
 Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Dust**  
 Kempe, S., & Werner, M.S., 53-67

**Dye tracing**  
 Fagan, J.E., 185  
 Grgich, P., & Hammack, R., 185  
 Moss, P.L., 187  
 Ogden, A.E., Kenned, C., Bales, J., James, R., DiVincenzo, J.P., Rebecca, M., & Niese, M., 187

**Ecosystems**  
 Coons, D., 190

**Edible**  
 Fryer, S., Despain, J., Downey, K., & Walck, C., 179

**Editorial**  
 Boston, P., 87-87  
 White, W.B., 91-92

**Edwards Aquifer**  
 Krejca, J.K., 174-175  
 Lindley, A.L., & Hovorka, S.D., 186

**Egemeier Model**  
 Queen, J.M., 187

**Eiskogelhohle**  
 Self, C.A., & Hill, C.A., 130-151

**Eiswert**  
 Espinasa, L., & Jeffery, W.R., 93-100

**El Caballo/Pajaros Cave**  
 Nieves-Rivera, A.M., 22-28

**El Convento Cave Spring**  
 Nieves-Rivera, A.M., 22-28

**El Malpais National Monument**  
 Polyak, V.J., & Provencio, P.P., 190

**Electromagnetic conductivity profiles**  
 Grgich, P., & Hammack, R., 185

**Electronics**  
 Pease, B.L., 178-179

**Elemental analyses**  
 Kempe, S., & Werner, M.S., 53-67

**Elephants**  
 Halliday, W.R., 86-86

**Empalme Sinkhole**  
 Nieves-Rivera, A.M., 22-28

**Endless Cave**  
 Self, C.A., & Hill, C.A., 130-151

**England**  
 Self, C.A., & Hill, C.A., 130-151

**Ensembles**  
 Self, C.A., & Hill, C.A., 130-151

**Eogenetic**  
 Stafford, K.W., Keel, T.M., Mylroie, J.E., Mylroie, J.R., & Jenson, J.W., 188

**Epsomite**  
 Self, C.A., & Hill, C.A., 130-151

**Erosion**  
 Kempe, S., Bauer, I., & Henschel, H., 76-85

**Escarment retreat**  
 Kambesis, P.N., & Sasowsky, I.D., 186

**Espinara Cave**  
 Nieves-Rivera, A.M., 22-28

**Europe**  
 Peck, S.B., & Thayer, M.K., 3-8  
 Espinasa, L., & Jeffery, W.R., 93-100  
 Galdenzi, S., & Maruoka, T., 111-125  
 Downey, K., 179

**Evolution**  
 Peck, S.B., & Thayer, M.K., 3-8  
 Buhay, J., Fetzner, Jr., J., & Crandall, K., 174

**Exploration**

Crothers, G., Ward, R., & Swedlund, C., 176-177  
 Bosted, A., 178  
 Bosted, P., 178: 180-181  
 Potter, M., 178  
 Rogers, B.W., Snyder, D., Haye, M., & Randall, I.E., 178  
 Szukalski, B., 178  
 Coke, IV, J.G., 178: 181  
 Heazlit, C., 178  
 Pease, B.L., 178-179  
 Addison, A., 179  
 Andrews, C., 179  
 Downey, K., 179  
 Fryer, S., Despain, J., Downey, K., & Walck, C., 179  
 McKenzie, I., 179  
 Oliphant, M., & Pistole, N., 179  
 Pisarowicz, J., & Snow, A., 179  
 Stafford, K.W., Taborosi, D., Keel, T.M., Mylroie, J.E., Mylroie, J.R., & Jenson, J.W., 179-180  
 Stone, B., 180  
 Veni, G., 180  
 Zawada, M., 180  
 am Ende, B., & Nyland, L.S., 180  
 Andreatta, D., 180  
 Green, D., 181  
 Passerby, M., 181  
 Bern, C., 181  
 Coons, D., 181  
 Despain, J., 181  
 Frantz, E., 181  
 Hall, M.D., 182  
 Halliday, W.R., 182  
 Lyles, J.T.M., 182  
 Passerby, M., 182  
 Pisarowicz, J., Snow, A., & Lester, D., 182  
 Wiles, M., 182

**Explosives**  
 Frantz, E., 181

**Extraterrestrial**  
 Boston, P.J., 183-184

**Eye size**  
 Espinasa, L., & Jeffery, W.R., 93-100

**Faggeto Tondo Cave**  
 Galdenzi, S., & Maruoka, T., 111-125

**Fairy Cave**  
 Zeppelini, D., & Christiansen, K., 36-42

**Falling Spring Cave**  
 Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Fault**  
 Rogers, B.W., Despain, J., Frantz, W., & Portillo, J., 187-188

**Federal Data Quality Act**  
 Halliday, W.R., 175

**Feldspar**  
 Veni, G., 189

**Fibrous aggregates**  
 Self, C.A., & Hill, C.A., 130-151

**Fire**  
 Ohms, M.J., 176

**First-Order aggregates**  
 Self, C.A., & Hill, C.A., 130-151

**First-Order individuals**  
 Self, C.A., & Hill, C.A., 130-151

**Flank margin cave**  
 Florea, L.J., Mylroie, J.E., & Price, A., 185  
 Roth, M., Zellner, K., & Mylroie, J., 188

**Flattop Mountain**  
 Medville, D., & Medville, H., 190

**Florida**  
 Denizman, C., 29-35

**Flowers**  
 Self, C.A., & Hill, C.A., 130-151

**Flughellir Cave**  
 Halliday, W.R., 190

**Fogelpole Cave**  
 Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Folk uses**  
 Douglas, J.C., 177

**Food**  
 Nieves-Rivera, A.M., 22-28  
 Hubbard, Jr., D.A., 177

**Footprint**  
 Roth, M., Zellner, K., & Mylroie, J., 188

**Footprints**  
 Willey, P., Stolen, J., Crothers, G., & Watson, P.J., 177-178

**Fort Stanton Cave**

Self, C.A., & Hill, C.A., 130-151

**Fragstats**  
 Denizman, C., 29-35

**France**  
 Self, C.A., & Hill, C.A., 130-151

**Frasassi Caves**  
 Galdenzi, S., & Maruoka, T., 111-125

**Freelanders Well**  
 Passerby, M., 182

**Friars Hole Cave System**  
 White, W.B., & White, E.L., 43-52

**Frog Cave**  
 Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21  
 Zeppelini, D., & Christiansen, K., 36-42

**Fruths Spider Cave**  
 Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Fumes**  
 Halliday, W.R., 182

**Fungi**  
 Nieves-Rivera, A.M., 22-28

**Gasconade Formation**  
 Hall, M.D., 182

**Gating**  
 Halliday, W.R., 175  
 Willey, P., Stolen, J., Crothers, G., & Watson, P.J., 177-178

**Gecko Cave**  
 Stafford, K.W., Keel, T.M., Mylroie, J.E., Mylroie, J.R., & Jenson, J.W., 188

**Genetic**  
 Krejca, J.K., 174-175

**Geochemistry**  
 White, W.B., & White, E.L., 43-52  
 Engel, A.S., Stern, L.A., & Bennett, P.C., 184  
 Ogden, A.E., Kenned, C., Bales, J., James, R., DiVincenzo, J.P., Rebecca, M., & Niese, M., 187  
 Schaper, J.A., & Wicks, C.M., 188

**Geodatabase**  
 Ohms, R., 183

**Geographic Information System**  
 Addison, A., 182  
 Glennon, A., 182-183  
 McDonough, F., 183  
 McKenzie, D., & Veni, G., 183  
 Ohms, R., 183  
 Paylor, R., Florea, L., Caudill, M., & Currens, J., 183

**Geography**  
 Denizman, C., 29-35  
 Espinasa, L., & Jeffery, W.R., 93-100  
 Applegate, P., 126-129  
 Glennon, A., 182-183

**Geology**  
 White, W.B., & White, E.L., 43-52  
 Kempe, S., & Werner, M.S., 53-67  
 Halliday, W.R., 68-75  
 Kempe, S., Bauer, I., & Henschel, H., 76-85  
 Galdenzi, S., & Maruoka, T., 111-125  
 Applegate, P., 126-129  
 Self, C.A., & Hill, C.A., 130-151  
 Dom, J.E., & Wicks, C.M., 155-159  
 Pflitsch, A., & Piasecki, J., 160-173  
 Potter, M., 178  
 Fryer, S., Despain, J., Downey, K., & Walck, C., 179  
 Hall, M.D., 182  
 Glennon, A., 182-183  
 Bixby, R.L., & Sasowsky, I.D., 183  
 Boston, P.J., 183-184  
 Curry, M.D., Sasowsky, I.D., & Shank, D.A., 184  
 Davis, D.G., & Luiszer, F.G., 184  
 Deatrick, J., Hoffelt, J., & Anderson, W.S., 184  
 Engel, A.S., Stern, L.A., & Bennett, P.C., 184  
 Ersek, V., Mylroie, J.E., Panuska, B., & Mylroie, J.R., 184-185  
 Fagan, J.E., 185  
 Florea, L.J., Mylroie, J.E., & Price, A., 185  
 Grgich, P., & Hammack, R., 185  
 Hall, M., 185  
 Hose, L.D., Bailey, Z.C., Land, L., & Boston, P.J., 185  
 Hose, L.D., & Boston, P.J., 186  
 Jameson, R.A., 186  
 Kambesis, P.N., & Sasowsky, I.D., 186

Keel, T.M., Stafford, K.W., Mylroie, J.E., Mylroie, J.R., & Jenson, J.W., 186  
 Lindley, A.L., & Hovorka, S.D., 186  
 Moss, P.L., 187  
 Ogden, A.E., Kenned, C., Bales, J., James, R., DiVincenzo, J.P., Rebecca, M., & Niese, M., 187  
 Polyak, V.J., Rasmussen, J.B.T., & Asmerom, Y., 187  
 Queen, J.M., 187  
 Rogers, B.W., Despain, J., Frantz, W., & Portillo, J., 187-188  
 Rogers, B.W., 188  
 Roth, M., Zellner, K., & Mylroie, J., 188  
 Schaper, J.A., & Wicks, C.M., 188  
 Spilde, M.N., Boston, P.J., & Northup, D.E., 188  
 Stafford, K.W., Keel, T.M., Mylroie, J.E., Mylroie, J.R., & Jenson, J.W., 188  
 Tinsley, J.C., Hess, J.W., Cowan, D., Hurtt, H., & Farr, W., 189  
 Veni, G., 189  
 Halliday, W.R., 189  
 Medville, D., & Medville, H., 190  
 Polyak, V.J., & Provencio, P.P., 190

**Geomorphology**  
 Kempe, S., & Werner, M.S., 53-67  
 Kempe, S., Bauer, I., & Henschel, H., 76-85  
 Galdenzi, S., & Maruoka, T., 111-125  
 Dom, J.E., & Wicks, C.M., 155-159

**Geophysics**  
 Grgich, P., & Hammack, R., 185

**Georgia**  
 Peck, S.B., & Thayer, M.K., 3-8  
 Zeppelini, D., & Christiansen, K., 36-42

**Geothermal Heat**  
 Pflitsch, A., & Piasecki, J., 160-173

**Germany**  
 Pflitsch, A., & Piasecki, J., 160-173

**Gibbsite**  
 Spilde, M.N., Boston, P.J., & Northup, D.E., 188

**GIS**  
 Denizman, C., 29-35  
 Applegate, P., 126-129  
 Elliott, W.R., 174  
 Passerby, M., 182  
 Ohms, R., 183  
 Paylor, R., Florea, L., Caudill, M., & Currens, J., 183

**Glaciations**  
 Espinasa, L., & Jeffery, W.R., 93-100

**Glenwood Caverns**  
 Zeppelini, D., & Christiansen, K., 36-42  
 Halliday, W.R., 68-75

**Global Positioning System**  
 Coke, IV, J.G., 181

**Glyph**  
 Hubbard, Jr., D.A., 177

**Hubbard**  
 Douglas, J.C., 189

**Goethite**  
 Spilde, M.N., Boston, P.J., & Northup, D.E., 188

**Gold Rush**  
 Bosted, A., 178

**Graffiti**  
 Smith, M.O., 177

**Grand Canyon**  
 Self, C.A., & Hill, C.A., 130-151

**Granite**  
 Potter, M., 178

**Grant Lake Formation**  
 Applegate, P., 126-129

**Granular aggregates**  
 Self, C.A., & Hill, C.A., 130-151

**Gravel**  
 Kempe, S., Bauer, I., & Henschel, H., 76-85

**Gray Bat**  
 Schubert, B.W., & Kaufmann, J.E., 101-110

**Greenbrier County**  
 Schneider, K., & Culver, D.C., 175  
 Hall, M., 185

**Grotta del Fiume**  
 Galdenzi, S., & Maruoka, T., 111-125

**Grotta del Mezzogiorno**  
 Galdenzi, S., & Maruoka, T., 111-125

**Grotta di Frasassi**  
 Galdenzi, S., & Maruoka, T., 111-125

**Grotta Grande del Vento**  
 Galdenzi, S., & Maruoka, T., 111-125

**Groundwater**

Halliday, W.R., 68-75  
**Groundwater flow**  
 Fagan, J.E., 185  
**Gruta de las Canicas**  
 Pisarowicz, J., & Snow, A., 179  
**Guadalupe Mountains**  
 Galdenzi, S., & Maruoka, T., 111-125  
**Guadalupian**  
 Queen, J.M., 187  
**Gypsum**  
 Galdenzi, S., & Maruoka, T., 111-125  
 Self, C.A., & Hill, C.A., 130-151  
 Engel, A.S., Stern, L.A., & Bennett, P.C., 184  
 Rogers, B.W., 188  
**Gypsum wedging**  
 White, W.B., & White, E.L., 43-52  
**Hair**  
 Self, C.A., & Hill, C.A., 130-151  
**Halite**  
 Fryer, S., Despain, J., Downey, K., & Walck, C., 179  
**Halloysite**  
 Kempe, S., Bauer, I., & Henschel, H., 76-85  
 Queen, J.M., 187  
**Hamakua Volcanics**  
 Kempe, S., & Werner, M.S., 53-67  
 Kempe, S., Bauer, I., & Henschel, H., 76-85  
**Hamilton County**  
 Applegate, P., 126-129  
**Haney Spring**  
 Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21  
**Hannibal Karst**  
 Dom, J.E., & Wicks, C.M., 155-159  
 Elliott, W.R., 174  
**Haul system**  
 Heazlit, C., 178  
**Hawaii**  
 Kempe, S., & Werner, M.S., 53-67  
 Halliday, W.R., 68-75: 182: 189  
 Kempe, S., Bauer, I., & Henschel, H., 76-85  
 Coons, D., 181: 189: 190  
**Hawaii County**  
 Coons, D., 190  
**Haynes, Jay**  
 Halliday, W.R., 189  
**Hazard**  
 Halliday, W.R., 68-75  
 Halliday, W.R., 182  
**Helictites**  
 Self, C.A., & Hill, C.A., 130-151  
**Hematite**  
 Kempe, S., & Werner, M.S., 53-67  
 Kempe, S., Bauer, I., & Henschel, H., 76-85  
 Veni, G., 189  
**Hidden Hand Cave**  
 Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21  
**Hierarchy**  
 Self, C.A., & Hill, C.A., 130-151  
**Highest Cave**  
 McKenzie, I., 179  
**Hilo**  
 Halliday, W.R., 68-75  
**History**  
 Douglas, J.C., 177  
 Bosted, A., 178  
 Rogers, B.W., Snyder, D., Haye, M., & Randall, I.E., 178  
 Stafford, K.W., Taborosi, D., Keel, T.M., Mylroie, J.E., Mylroie, J.R., & Jenson, J.W., 179-180  
 Douglas, J.C., 189  
 Grady, F., 189  
 Halliday, W.R., 189  
 Sowers, J., Frantz, P., Frantz, B., & Devereaux, B., 190  
**Hollow**  
 Halliday, W.R., 189  
**Hoodoo**  
 Fryer, S., Despain, J., Downey, K., & Walck, C., 179  
**Horsethief Cave**  
 Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21  
**Hose, Louise**  
 Hose, L.D., Bailey, Z.C., Land, L., & Boston, P.J., 185

**Hoyes Run**

Grgich, P., & Hammack, R., 185  
**Hualalai**  
 Kempe, S., Bauer, I., & Henschel, H., 76-85  
**Human impact**  
 Pflitsch, A., & Piasecki, J., 160-173  
**Humo Cave**  
 Nieves-Rivera, A.M., 22-28  
**Hybrid multiaggregates**  
 Self, C.A., & Hill, C.A., 130-151  
**Hydrogen sulfide**  
 Galdenzi, S., & Maruoka, T., 111-125  
 Queen, J.M., 187  
**Hydrogeology**  
 Kempe, S., & Werner, M.S., 53-67  
 Halliday, W.R., 68-75  
 Kempe, S., Bauer, I., & Henschel, H., 76-85  
 Galdenzi, S., & Maruoka, T., 111-125  
 Hall, M.D., 182  
 Deatrck, J., Hoffelt, J., & Anderson, W.S., 184  
 Fagan, J.E., 185  
 Grgich, P., & Hammack, R., 185  
**Hydrology**  
 Krejca, J.K., 174-175  
 Davis, D.G., & Luiszer, F.G., 184  
 Schaper, J.A., & Wicks, C.M., 188  
 Tinsley, J.C., Hess, J.W., Cowan, D., Hurtt, H., & Farr, W., 189  
**Hyperthermal caves**  
 Halliday, W.R., 182  
 Pisarowicz, J., Snow, A., & Lester, D., 182  
**Hypogenic caves**  
 Galdenzi, S., & Maruoka, T., 111-125  
**Ice**  
 Self, C.A., & Hill, C.A., 130-151  
 Rogers, B.W., 188  
 Sowers, J., Frantz, P., Frantz, B., & Devereaux, B., 190  
**Icebox Cave**  
 Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21  
**Iceland**  
 Halliday, W.R., 68-75: 190  
**Idaho**  
 Zeppelini, D., & Christiansen, K., 36-42  
 Grady, F., & Hubbard, Jr., D.A., 190  
**ILADIN**  
 McDonough, F., 183  
**Illinois**  
 Peck, S.B., & Thayer, M.K., 3-8  
 Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21  
 Zeppelini, D., & Christiansen, K., 36-42  
 Taylor, S.J., Wilhelm, F.M., Venarsky, M.P., & Adams, G.L., 175  
 Moss, P.L., 187  
**Illinois Caverns**  
 Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21  
**Illinois Natural Areas Inventory**  
 Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21  
**Illite**  
 Spilde, M.N., Boston, P.J., & Northup, D.E., 188  
**Imbs Station Road Spring**  
 Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21  
**Implements**  
 Coons, D., 190  
**Inclinometer**  
 Andreatta, D., 180  
**India**  
 Zawada, M., 180  
**Indiana**  
 Zeppelini, D., & Christiansen, K., 36-42  
 Espinasa, L., & Jeffery, W.R., 93-100  
 Buhay, J., Fetzner, Jr., J., & Crandall, K., 174  
**Indians**  
 Douglas, J.C., 189  
**Ingress Nexus**  
 McDonough, F., 183  
**Institute For Scientific Information**  
 White, W.B., 91-92  
**Instruments**  
 Andreatta, D., 180  
 Coke, IV, J.G., 181  
**Interactive aggregates**  
 Self, C.A., & Hill, C.A., 130-151

**Interior Lowlands**

Buhay, J., Fetzner, Jr., J., & Crandall, K., 174  
**Inventory**  
 Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21  
**Invertebrates**  
 Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21  
**Iowa**  
 Peck, S.B., & Thayer, M.K., 3-8  
 Zeppelini, D., & Christiansen, K., 36-42  
**Iron**  
 Spilde, M.N., Boston, P.J., & Northup, D.E., 188  
**Irregular spherulites**  
 Self, C.A., & Hill, C.A., 130-151  
**Isla de Mona**  
 Ersek, V., Mylroie, J.E., Panuska, B., & Mylroie, J.R., 184-185  
**Islands**  
 Ersek, V., Mylroie, J.E., Panuska, B., & Mylroie, J.R., 184-185  
 Florea, L.J., Mylroie, J.E., & Price, A., 185  
 Keel, T.M., Stafford, K.W., Mylroie, J.E., Mylroie, J.R., & Jenson, J.W., 188  
**Isopods**  
 Krejca, J.K., 174-175  
**Isotopes**  
 Galdenzi, S., & Maruoka, T., 111-125  
**Italy**  
 Galdenzi, S., & Maruoka, T., 111-125  
**IXL Cave**  
 Rogers, B.W., Snyder, D., Haye, M., & Randall, I.E., 178  
**Jackson County**  
 Kambesis, P.N., & Sasowsky, I.D., 186  
**Jacobs Cave**  
 Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21  
 Zeppelini, D., & Christiansen, K., 36-42  
**Jaguar Cave**  
 Willey, P., Stolen, J., Crothers, G., & Watson, P.J., 177-178  
**Japanese occupation**  
 Stafford, K.W., Taborosi, D., Keel, T.M., Mylroie, J.E., Mylroie, J.R., & Jenson, J.W., 179-180  
**Jenolan Caves**  
 Douglas, J.C., 189  
**Jewel Cave**  
 Wiles, M., 182  
 Ohms, R., 183  
 Spilde, M.N., Boston, P.J., & Northup, D.E., 188  
**Jeweled Cave**  
 Pisarowicz, J., Snow, A., & Lester, D., 182  
**Journal**  
 White, W.B., 91-92  
**Juelfs Cave**  
 Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21  
**Juveniles**  
 Hobbs, III, H.H., & Lawyer, R., 174  
**Kalopa State Park**  
 Kempe, S., & Werner, M.S., 53-67  
**Kaolinite**  
 Spilde, M.N., Boston, P.J., & Northup, D.E., 188  
 Veni, G., 189  
**Karstic depressions**  
 Denizman, C., 29-35  
**Kaumana Cave**  
 Halliday, W.R., 68-75  
**Kazumura Cave**  
 Halliday, W.R., 68-75  
**Kelly Spring Cave**  
 Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21  
**Kentucky**  
 Zeppelini, D., & Christiansen, K., 36-42  
 White, W.B., & White, E.L., 43-52  
 Halliday, W.R., 68-75  
 Espinasa, L., & Jeffery, W.R., 93-100  
 Self, C.A., & Hill, C.A., 130-151  
 Buhay, J., Fetzner, Jr., J., & Crandall, K., 174  
 Hobbs, III, H.H., & Lawyer, R., 174  
 Crothers, G., Ward, R., & Swedlund, C., 176-177

Despain, J., 181  
 Glennon, A., 182-183  
 Paylor, R., Florea, L., Caudill, M., & Currens, J., 183  
 Douglas, J.C., 189  
**Kenya**  
 Halliday, W.R., 86-86  
**Kijaha Xontjoo System**  
 Andrews, C., 179  
**Kilauea**  
 Kempe, S., Bauer, I., & Henschel, H., 76-85  
**Kilauea Caldera**  
 Halliday, W.R., 182  
 Halliday, W.R., 189  
**Kings Canyon National Park**  
 Tinsley, J.C., Hess, J.W., Cowan, D., Hurtt, H., & Farr, W., 189  
**Kipuka Kanohina Cave System**  
 Coons, D., 181  
 Coons, D., 190  
**Kitum Cave**  
 Halliday, W.R., 86-86  
**Kletno**  
 Pflitsch, A., & Piasecki, J., 160-173  
**Kokoweef Cave**  
 Szukalski, B., 178  
**Koras**  
 Self, C.A., & Hill, C.A., 130-151  
**Krem Maw Tynhang**  
 Zawada, M., 180  
**Krueger-Dry Run Cave**  
 Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21  
**Kuka'iau Cave**  
 Kempe, S., & Werner, M.S., 53-67  
 Kempe, S., Bauer, I., & Henschel, H., 76-85  
**Kuka'iau Piping Cave**  
 Kempe, S., & Werner, M.S., 53-67  
**LaBume Cave**  
 Dom, J.E., & Wicks, C.M., 155-159  
**Lake Shasta Caverns**  
 Bosted, A., 178  
**Laniakea Cave**  
 Halliday, W.R., 68-75  
**Las Brujas Cave**  
 Galdenzi, S., & Maruoka, T., 111-125  
**Laser pointer**  
 Andreatta, D., 180  
**Laser Rangefinder**  
 am Ende, B., & Nyland, L.S., 180  
**Lasu Recharge Cave**  
 Stafford, K.W., Keel, T.M., Mylroie, J.E., Mylroie, J.R., & Jenson, J.W., 188  
**Laurel Caverns**  
 am Ende, B., & Nyland, L.S., 180  
**Lava**  
 Chowdhury, A., 176  
**Lava Beds**  
 Elliott, W.R., Rudolph, D.C., Ubick, D., Briggs, T., & Reddell, J.R., 174  
**Lava Beds National Monument**  
 Reece, M.A., 176  
 Sowers, J., Frantz, P., Frantz, B., & Devereaux, B., 190  
**Lava flow**  
 Halliday, W.R., 182  
**Lava Rise Caves**  
 Halliday, W.R., 189  
**Lava tube**  
 Kempe, S., & Werner, M.S., 53-67  
 Halliday, W.R., 68-75: 189: 190  
 Kempe, S., Bauer, I., & Henschel, H., 76-85  
 Reece, M.A., 176  
 King, L., 177  
 Coons, D., 181: 189  
 Medville, D., & Medville, H., 190  
 Polyak, V.J., & Provencio, P.P., 190  
 Green, D., 181  
**Laws**  
 Halliday, W.R., 68-75  
**Lechuguilla Cave**  
 Self, C.A., & Hill, C.A., 130-151  
 Queen, J.M., 176  
 Lyles, J.T.M., 182  
 Spilde, M.N., Boston, P.J., & Northup, D.E., 188  
**Lee County**  
 Fagan, J.E., 185  
**Legislation**  
 Hose, L.D., & Boston, P.J., 175  
**Leitharendi Cave**  
 Halliday, W.R., 190

**Letter To The Editor**

- Halliday, W.R., 86  
**Lick Branch Karst**  
 Deatrick, J., Hoffelt, J., & Anderson, W.S., 184  
**Lighting**  
 Reece, M.A., 176  
**Lilburn Cave**  
 Bosted, P., 178  
 Bosted, P., 180-181  
 Tinsley, J.C., Hess, J.W., Cowan, D., Hurtt, H., & Farr, W., 189  
**Lineament analysis**  
 McDonough, F., 183  
**Lion**  
 Grady, F., 190  
**Lithiophorite**  
 Spilde, M.N., Boston, P.J., & Northup, D.E., 188  
**Little Arch Cave**  
 Zeppelini, D., & Christiansen, K., 36-42  
**Little Cave**  
 Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21  
**Lochabar Spring**  
 Espinasa, L., & Jeffery, W.R., 93-100  
**Lofts**  
 Queen, J.M., 187  
**Long Caves**  
 Bern, C., 181  
 Lyles, J.T.M., 182  
 Wiles, M., 182  
**Lost Cove**  
 Deatrick, J., Hoffelt, J., & Anderson, W.S., 184  
**Lost Mascot Cave**  
 Davis, D.G., & Luiszer, F.G., 184  
**Luxemburg Cave**  
 Pflitsch, A., & Piasecki, J., 160-173  
**Lycoming County**  
 Espinasa, L., & Jeffery, W.R., 93-100  
**Madagascar**  
 Halliday, W.R., 68-75  
**Madeira Island**  
 Peck, S.B., & Thayer, M.K., 3-8  
**Madonnville Cave**  
 Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21  
 Zeppelini, D., & Christiansen, K., 36-42  
**Magic**  
 Chowdhury, A., 176  
**Magnetic**  
 Green, D., 181  
**Magnetic Reversal**  
 Curry, M.D., Sasowsky, I.D., & Shank, D.A., 184  
**Malachite**  
 Self, C.A., & Hill, C.A., 130-151  
**Mammoth Cave**  
 Self, C.A., & Hill, C.A., 130-151  
 Crothers, G., Ward, R., & Swedlund, C., 176-177  
**Mammoth Cave of Wyoming**  
 Halliday, W.R., 189  
**Mammoth Cave System**  
 White, W.B., & White, E.L., 43-52  
**Mammoth Hot Springs**  
 Pisarowicz, J., Snow, A., & Lester, D., 182  
**Management**  
 Halliday, W.R., 175  
 Hose, L.D., & Boston, P.J., 175  
 Ohms, M.J., 176  
 Queen, J.M., 176  
 Crothers, G., Ward, R., & Swedlund, C., 176-177  
**Manganese oxide**  
 Schubert, B.W., & Kaufmann, J.E., 101-110  
**Manifold**  
 Passerby, M., 181: 182  
**Manitou Cave**  
 Zeppelini, D., & Christiansen, K., 36-42  
**Mapping**  
 Applegate, P., 126-129  
**Maps**  
 Lindley, A.L., & Hovorka, S.D., 186  
**Marble**  
 Rogers, B.W., Snyder, D., Haye, M., & Randall, I.E., 178  
**Marble Mountains**  
 Elliott, W.R., Rudolph, D.C., Ubick, D., Briggs, T., & Reddell, J.R., 174  
**Mariana Islands**  
 Stafford, K.W., Taborosi, D., Keel, T.M., Mylroie, J.E., Mylroie, J.R., & Jenson, J.W., 179-180  
 Keel, T.M., Stafford, K.W., Mylroie, J.E., Mylroie, J.R., & Jenson, J.W., 186  
 Stafford, K.W., Keel, T.M., Mylroie, J.E., Mylroie, J.R., & Jenson, J.W., 188  
**Mark Twain Cave**  
 Dom, J.E., & Wicks, C.M., 155-159  
**Maryland**  
 Peck, S.B., & Thayer, M.K., 3-8  
 Zeppelini, D., & Christiansen, K., 36-42  
 Grgich, P., & Hammack, R., 185  
**Masalok Fracture Cave Complex**  
 Stafford, K.W., Keel, T.M., Mylroie, J.E., Mylroie, J.R., & Jenson, J.W., 188  
**Masonic Caves**  
 Bosted, A., 178  
**Maternity colonies**  
 Halliday, W.R., 175  
**Mattan Hanum**  
 Stafford, K.W., Keel, T.M., Mylroie, J.E., Mylroie, J.R., & Jenson, J.W., 188  
**Mauna Kea**  
 Kempe, S., & Werner, M.S., 53-67  
 Kempe, S., Bauer, I., & Henschel, H., 76-85  
**Mauna Loa**  
 Kempe, S., Bauer, I., & Henschel, H., 76-85  
**Mauritius**  
 Chowdhury, A., 176  
**Maya Spring**  
 Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21  
**Mayan**  
 Veni, G., 180  
**Maze**  
 Veni, G., 180  
 Coons, D., 189  
**McCartneys Cave**  
 Pisarowicz, J., Snow, A., & Lester, D., 182  
 Halliday, W.R., 189  
**Mediterranean**  
 Peck, S.B., & Thayer, M.K., 3-8  
**Meghalaya**  
 Zawada, M., 180  
**Mercer Caverns**  
 Bosted, A., 178  
**Merrill Ice Cave**  
 Sowers, J., Frantz, P., Frantz, B., & Devereaux, B., 190  
**Metamorphic**  
 Pflitsch, A., & Piasecki, J., 160-173  
**Meteorology**  
 Pflitsch, A., & Piasecki, J., 160-173  
**Methods**  
 Pflitsch, A., & Piasecki, J., 160-173  
 Coke, IV, J.G., 181  
 McDonough, F., 183  
**Metter Cave**  
 Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21  
**Mexico**  
 Krejca, J.K., 174-175  
 Coke, IV, J.G., 178  
 Addison, A., 179  
 Andrews, C., 179  
 Oliphant, M., & Pistole, N., 179  
 Pisarowicz, J., & Snow, A., 179  
 Stone, B., 180  
 Veni, G., 180  
 Coke, IV, J.G., 181  
 Addison, A., 182  
**Miamitown Shale**  
 Applegate, P., 126-129  
**Microbes**  
 Galdenzi, S., & Maruoka, T., 111-125  
**Microbiology**  
 Polyak, V.J., & Provencio, P.P., 190  
**Middle Earth Cave**  
 Passerby, M., 182  
 Hall, M., 185  
**Mineral aggregates**  
 Self, C.A., & Hill, C.A., 130-151  
**Mineralogy**  
 White, W.B., & White, E.L., 43-52  
 Kempe, S., & Werner, M.S., 53-67  
 Kempe, S., Bauer, I., & Henschel, H., 76-85  
 Galdenzi, S., & Maruoka, T., 111-125  
 Self, C.A., & Hill, C.A., 130-151  
 Rogers, B.W., 188  
 Spilde, M.N., Boston, P.J., & Northup, D.E., 188  
 Veni, G., 189  
 Sowers, J., Frantz, P., Frantz, B., & Devereaux, B., 190  
**Mining**  
 Crothers, G., Ward, R., & Swedlund, C., 176-177  
 Hubbard, Jr., D.A., 177  
 Veni, G., 180  
**Minor mineral bodies**  
 Self, C.A., & Hill, C.A., 130-151  
**Mississippi River**  
 Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21  
**Missouri**  
 Peck, S.B., & Thayer, M.K., 3-8  
 Zeppelini, D., & Christiansen, K., 36-42  
 Espinasa, L., & Jeffery, W.R., 93-100  
 Dom, J.E., & Wicks, C.M., 155-159  
 Buhay, J., Fetzner, Jr., J., & Crandall, K., 174  
 Elliott, W.R., 174  
 Frantz, E., 181  
 Hall, M.D., 182  
 Schaper, J.A., & Wicks, C.M., 188  
**Mitchell Caverns**  
 Bosted, A., 178  
 Szukalski, B., 178  
**Mixing dissolution**  
 Roth, M., Zellner, K., & Mylroie, J., 188  
**Moaning Cavern**  
 Bosted, A., 178  
**Moestroff Cave**  
 Pflitsch, A., & Piasecki, J., 160-173  
**Mojava Desert**  
 Elliott, W.R., Rudolph, D.C., Ubick, D., Briggs, T., & Reddell, J.R., 174  
 Szukalski, B., 178  
**Mona Island**  
 Nieves-Rivera, A.M., 22-28  
**Monroe County**  
 Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21  
**Monte Cucco Cave**  
 Galdenzi, S., & Maruoka, T., 111-125  
**Moonmilk**  
 Self, C.A., & Hill, C.A., 130-151  
 Rogers, B.W., 188  
**Moonshine**  
 Hubbard, Jr., D.A., 177  
**Moravia**  
 Self, C.A., & Hill, C.A., 130-151  
**Moravian Karst**  
 Pflitsch, A., & Piasecki, J., 160-173  
**Morocco**  
 Peck, S.B., & Thayer, M.K., 3-8  
**Morphing**  
 Passerby, M., 181  
**Morphology**  
 Espinasa, L., & Jeffery, W.R., 93-100  
 Dom, J.E., & Wicks, C.M., 155-159  
 Roth, M., Zellner, K., & Mylroie, J., 188  
**Morphometric**  
 Denizman, C., 29-35  
**Mother Lode Region**  
 Elliott, W.R., Rudolph, D.C., Ubick, D., Briggs, T., & Reddell, J.R., 174  
**Mottled Sculpin**  
 Espinasa, L., & Jeffery, W.R., 93-100  
**Mount Emory Cave**  
 Veni, G., 189  
**Mowich Cave**  
 Halliday, W.R., 175  
**Mt. Airy Forest**  
 Applegate, P., 126-129  
**Mucous Glycocalyx**  
 Galdenzi, S., & Maruoka, T., 111-125  
**Muir, John**  
 Bosted, A., 178  
 Douglas, J.C., 189  
**Multiaggregates**  
 Self, C.A., & Hill, C.A., 130-151  
**Munitions**  
 Hubbard, Jr., D.A., 177  
**Mushpot Cave**  
 Reece, M.A., 176  
**Mycology**  
 Nieves-Rivera, A.M., 22-28  
**Myrons Misery Cave**  
 Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21  
**National Cave & Karst Research Institute**  
 Boston, P., 87  
 Hose, L.D., Bailey, Z.C., Land, L., & Boston, P.J., 185  
 Hose, L.D., & Boston, P.J., 175: 186  
**National monument**  
 Reece, M.A., 176  
 Rogers, B.W., Despain, J., Frantz, W., & Portillo, J., 187-188  
 Rogers, B.W., 188  
 Polyak, V.J., & Provencio, P.P., 190  
 Sowers, J., Frantz, P., Frantz, B., & Devereaux, B., 190  
**National park**  
 Ohms, M.J., 176  
 Crothers, G., Ward, R., & Swedlund, C., 176-177  
 Bern, C., 181  
 Halliday, W.R., 182: 189  
 Lyles, J.T.M., 182  
 Pisarowicz, J., Snow, A., & Lester, D., 182  
 McDonough, F., 183  
 Tinsley, J.C., Hess, J.W., Cowan, D., Hurtt, H., & Farr, W., 189  
 Veni, G., 189  
**National Park Service**  
 Boston, P., 87-87  
 Hose, L.D., & Boston, P.J., 175: 186  
**Natural Bridge Cave**  
 Bosted, A., 178  
**Natural Bridges**  
 Bosted, A., 178  
**Nature Conservancy**  
 Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21  
**Nearctic Caves**  
 Zeppelini, D., & Christiansen, K., 36-42  
**Nearest neighbor analysis**  
 Denizman, C., 29-35  
**Needles**  
 Self, C.A., & Hill, C.A., 130-151  
**New Mexico**  
 Boston, P., 87-87  
 Queen, J.M., 176: 187  
 Lyles, J.T.M., 182  
 Hose, L.D., Bailey, Z.C., Land, L., & Boston, P.J., 185  
 Spilde, M.N., Boston, P.J., & Northup, D.E., 188  
**New species**  
 Zeppelini, D., & Christiansen, K., 36-42  
**New York**  
 Peck, S.B., & Thayer, M.K., 3-8  
**Niche journal**  
 White, W.B., 91-92  
**Niedzwiedzia (Bear) Cave**  
 Pflitsch, A., & Piasecki, J., 160-173  
**Nippenose Valley**  
 Espinasa, L., & Jeffery, W.R., 93-100  
**Nitre**  
 Crothers, G., Ward, R., & Swedlund, C., 176-177  
**Nitrogen**  
 Spilde, M.N., Boston, P.J., & Northup, D.E., 188  
**Nordstrandite**  
 Spilde, M.N., Boston, P.J., & Northup, D.E., 188  
**North Carolina**  
 Zeppelini, D., & Christiansen, K., 36-42  
**Northernmost cave adapted fish**  
 Espinasa, L., & Jeffery, W.R., 93-100  
**Nullarbor Caves**  
 White, W.B., & White, E.L., 43-52  
**Ocean technology system**  
 Pease, B.L., 178-179  
**Ohio**  
 Zeppelini, D., & Christiansen, K., 36-42  
 Applegate, P., 126-129  
 Bixby, R.L., & Sasowsky, I.D., 183  
**Oklahoma**  
 Peck, S.B., & Thayer, M.K., 3-8  
**Olivine**  
 Kempe, S., & Werner, M.S., 53-67  
 Kempe, S., Bauer, I., & Henschel, H., 76-85  
**Ontogeny**  
 Self, C.A., & Hill, C.A., 130-151  
**Ordance**  
 Stafford, K.W., Taborosi, D., Keel, T.M., Mylroie, J.E., Mylroie, J.R., & Jenson, J.W., 179-180  
**Orebaugh Cave**  
 Zeppelini, D., & Christiansen, K., 36-42  
**Oregon**  
 Zeppelini, D., & Christiansen, K., 36-42

- Halliday, W.R., 68-75: 175  
King, L., 177  
Grady, F., 190
- Organic**  
Veni, G., 189
- Orientation**  
Lindley, A.L., & Hovorka, S.D., 186
- Overflow**  
Halliday, W.R., 68-75
- Oxidation**  
Galdenzi, S., & Maruoka, T., 111-125
- Oxygen**  
Taylor, S.J., Wilhelm, F.M., Venarsky, M.P., & Adams, G.L., 175
- Ozark Mountains**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Schubert, B.W., & Kaufmann, J.E., 101-110
- Ozark Plateaus**  
Dom, J.E., & Wicks, C.M., 155-159
- Ozark River Basins**  
Elliott, W.R., 174
- Pa'auhau Civil Defense Cave**  
Kempe, S., & Werner, M.S., 53-67
- Kempe, S., Bauer, I., & Henschel, H., 76-85
- Paleobiology**  
Schubert, B.W., & Kaufmann, J.E., 101-110
- Paleoclimate**  
Ersek, V., Mylroie, J.E., Panuska, B., & Mylroie, J.R., 184-185
- Polyak, V.J., Rasmussen, J.B.T., & Asmerom, Y., 187
- Paleokarst**  
Ersek, V., Mylroie, J.E., Panuska, B., & Mylroie, J.R., 184-185
- Paleomagnetism**  
Kambesis, P.N., & Sasowsky, I.D., 186
- Paleontology**  
Schubert, B.W., & Kaufmann, J.E., 101-110
- Ohms, M.J., 176  
Coons, D., 190  
Grady, F., 190
- Grady, F., & Hubbard, Jr., D.A., 190
- Paleosols**  
Ersek, V., Mylroie, J.E., Panuska, B., & Mylroie, J.R., 184-185
- Palisade Fabric**  
Self, C.A., & Hill, C.A., 130-151
- Parallel-Columnar aggregates**  
Self, C.A., & Hill, C.A., 130-151
- Partial**  
Schubert, B.W., & Kaufmann, J.E., 101-110
- Pautler Cave**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Zeppelini, D., & Christiansen, K., 36-42
- Pebbly Pile Creek**  
Tinsley, J.C., Hess, J.W., Cowan, D., Hurr, H., & Farr, W., 189
- Pennsylvania**  
Peck, S.B., & Thayer, M.K., 3-8
- Espinasa, L., & Jeffery, W.R., 93-100
- am Ende, B., & Nyland, L.S., 180
- Perched water table**  
Kempe, S., Bauer, I., & Henschel, H., 76-85
- Perryville Karst**  
Dom, J.E., & Wicks, C.M., 155-159
- Elliott, W.R., 174
- Peru**  
McKenzie, I., 179
- pH**  
Engel, A.S., Stern, L.A., & Bennett, P.C., 184
- Philosophy**  
White, W.B., 91-92
- Douglas, J.C., 189
- Phylogenetics**  
Buhay, J., Fetzner, Jr., J., & Crandall, K., 174
- Piatra Altaruluj Cave**  
Self, C.A., & Hill, C.A., 130-151
- Pictograph**  
Hubbard, Jr., D.A., 177
- Pigmentation**  
Espinasa, L., & Jeffery, W.R., 93-100
- Pigments**  
Porter, M.L., Perez Gonzalez, A., & Perez-Losada, M., 175
- Pink Dragon Cave**  
Self, C.A., & Hill, C.A., 130-151
- Pinnacles National Monument**  
Rogers, B.W., Despain, J., Frantz, W., & Portillo, J., 187-188
- Rogers, B.W., 188
- Pipe (Cement Hollow) Spring**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Plagioclase**  
Kempe, S., & Werner, M.S., 53-67
- Kempe, S., Bauer, I., & Henschel, H., 76-85
- Pleistocene**  
Espinasa, L., & Jeffery, W.R., 93-100
- Grady, F., 190
- Plutos Cave**  
Bosted, A., 178
- Poland**  
Zeppelini, D., & Christiansen, K., 36-42
- Pflitsch, A., & Piasecki, J., 160-173
- Pollution**  
Halliday, W.R., 68-75
- Polymineral multiaggregates**  
Self, C.A., & Hill, C.A., 130-151
- Polytextural multiaggregates**  
Self, C.A., & Hill, C.A., 130-151
- Popcorn**  
Queen, J.M., 187
- Population**  
Espinasa, L., & Jeffery, W.R., 93-100
- Hobbs, III, H.H., & Lawyer, R., 174
- Porosity enhancement**  
Florea, L.J., Mylroie, J.E., & Price, A., 185
- Portugal**  
Halliday, W.R., 68-75
- Postal Rift**  
Halliday, W.R., 182
- Postal Rift Lava Flow**  
Halliday, W.R., 189
- Potholes**  
Kempe, S., Bauer, I., & Henschel, H., 76-85
- Pre-Columbian**  
Veni, G., 189
- Prehistoric**  
Simek, J.F., & Cressler, A., 177
- Willey, P., Stolen, J., Crothers, G., & Watson, P.J., 177-178
- Prehistory**  
King, L., 177
- Preservation**  
Willey, P., Stolen, J., Crothers, G., & Watson, P.J., 177-178
- Progress capture device**  
Heazlit, C., 178
- Pseudoaggregates**  
Self, C.A., & Hill, C.A., 130-151
- Pseudohelictite**  
Self, C.A., & Hill, C.A., 130-151
- Pseudokarst**  
Kempe, S., & Werner, M.S., 53-67
- Halliday, W.R., 68-75
- Kempe, S., Bauer, I., & Henschel, H., 76-85
- Chowdhury, A., 176
- King, L., 177
- Potter, M., 178
- Coons, D., 181: 189
- Halliday, W.R., 182: 189: 190
- Medville, D., & Medville, H., 190
- Polyak, V.J., & Provencio, P.P., 190
- Sowers, J., Frantz, P., Frantz, B., & Devereaux, B., 190
- Puerto Rico**  
Nieves-Rivera, A.M., 22-28
- Pukamaui Cave**  
Halliday, W.R., 68-75
- Purpose**  
White, W.B., 91-92
- Pyrite**  
White, W.B., & White, E.L., 43-52
- Galdenzi, S., & Maruoka, T., 111-125
- Q-Mode analysis**  
Queen, J.M., 176
- Quartz**  
Kempe, S., & Werner, M.S., 53-67
- Self, C.A., & Hill, C.A., 130-151
- Veni, G., 189
- Quintana Roo**  
Coke, IV, J.G., 178
- Coke, IV, J.G., 181
- R-Mode**  
Queen, J.M., 176
- Raders Valley**  
Passerby, M., 182
- Hall, M., 185
- Raders Valley Project**  
Passerby, M., 181
- Radial-Fibrous aggregates**  
Self, C.A., & Hill, C.A., 130-151
- Radio**  
Pease, B.L., 178-179
- Radon**  
Pflitsch, A., & Piasecki, J., 160-173
- Recharge area**  
Moss, P.L., 187
- Recreation**  
King, L., 177
- Red Mountain**  
Medville, D., & Medville, H., 190
- Rescue**  
Heazlit, C., 178
- Residuum**  
Florea, L.J., Mylroie, J.E., & Price, A., 185
- Resistivity profiles**  
Grgich, P., & Hammack, R., 185
- Resource inventories**  
Queen, J.M., 176
- Resources**  
Chowdhury, A., 176
- Crothers, G., Ward, R., & Swedlund, C., 176-177
- Douglas, J.C., 177
- Hubbard, Jr., D.A., 177
- King, L., 177
- Simek, J.F., & Cressler, A., 177
- Smith, M.O., 177
- Willey, P., Stolen, J., Crothers, G., & Watson, P.J., 177-178
- Restoration**  
Horrocks, R.D., & Reece, M.A., 176
- Reece, M.A., 176
- Rhyolite**  
Veni, G., 189
- Rims**  
Queen, J.M., 187
- Rimstone**  
Veni, G., 189
- Rio Cane Caves Park**  
Nieves-Rivera, A.M., 22-28
- Rio Uruapan**  
Andrews, C., 179
- Road 18 Caves**  
King, L., 177
- Rock climbing**  
King, L., 177
- Rock flour**  
White, W.B., & White, E.L., 43-52
- Rock shelters**  
Chowdhury, A., 176
- Rodriguez**  
Chowdhury, A., 176
- Rogue River**  
Halliday, W.R., 68-75
- Romania**  
Self, C.A., & Hill, C.A., 130-151
- Romantic**  
Douglas, J.C., 189
- Root cellars**  
Douglas, J.C., 177
- Rose Hole**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Rose Hole Cave**  
Zeppelini, D., & Christiansen, K., 36-42
- Rota**  
Stafford, K.W., Taborosi, D., Keel, T.M., Mylroie, J.E., Mylroie, J.R., & Jenson, J.W., 179-180
- Keel, T.M., Stafford, K.W., Mylroie, J.E., Mylroie, J.R., & Jenson, J.W., 186
- Stafford, K.W., Keel, T.M., Mylroie, J.E., Mylroie, J.R., & Jenson, J.W., 188
- Rove Beetles**  
Peck, S.B., & Thayer, M.K., 3-8
- Rudimentary**  
Dom, J.E., & Wicks, C.M., 155-159
- Russia**  
Nieves-Rivera, A.M., 22-28
- Zeppelini, D., & Christiansen, K., 36-42
- Rutherford County**  
Ogden, A.E., Kenned, C., Bales, J., James, R., DiVincenzo, J.P., Rebecca, M., & Niese, M., 187
- Sabana Recharge Cave**  
Stafford, K.W., Keel, T.M., Mylroie, J.E., Mylroie, J.R., & Jenson, J.W., 188
- Safety**  
Halliday, W.R., 182
- Salem Plateau**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Espinasa, L., & Jeffery, W.R., 93-100
- Dom, J.E., & Wicks, C.M., 155-159
- Elliott, W.R., 174
- Taylor, S.J., Wilhelm, F.M., Venarsky, M.P., & Adams, G.L., 175
- Moss, P.L., 187
- Saltpeter**  
Smith, M.O., 177
- Saltpeter Cave**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Sam Six Cave**  
Zeppelini, D., & Christiansen, K., 36-42
- Sampling**  
Schneider, K., & Culver, D.C., 175
- San Andreas Fault**  
Rogers, B.W., Despain, J., Frantz, W., & Portillo, J., 187-188
- San Salvador Island**  
Florea, L.J., Mylroie, J.E., & Price, A., 185
- Sandite Cave**  
Davis, D.G., & Luiszer, F.G., 184
- Sandites**  
Davis, D.G., & Luiszer, F.G., 184
- Sands**  
Davis, D.G., & Luiszer, F.G., 184
- Scalable vector graphics**  
McKenzie, D., & Veni, G., 183
- Scale**  
Applegate, P., 126-129
- Scallops**  
Kempe, S., Bauer, I., & Henschel, H., 76-85
- Queen, J.M., 187
- Science Citation Index**  
White, W.B., 91-92
- Scientific expeditions**  
Crothers, G., Ward, R., & Swedlund, C., 176-177
- Screw crystals**  
Self, C.A., & Hill, C.A., 130-151
- Sculpin**  
Espinasa, L., & Jeffery, W.R., 93-100
- Seasonal**  
Ogden, A.E., Kenned, C., Bales, J., James, R., DiVincenzo, J.P., Rebecca, M., & Niese, M., 187
- Second-Order individuals**  
Self, C.A., & Hill, C.A., 130-151
- Sedimentation**  
Curry, M.D., Sasowsky, I.D., & Shank, D.A., 184
- Florea, L.J., Mylroie, J.E., & Price, A., 185
- Sediments**  
White, W.B., & White, E.L., 43-52
- Kempe, S., Bauer, I., & Henschel, H., 76-85
- Davis, D.G., & Luiszer, F.G., 184
- Florea, L.J., Mylroie, J.E., & Price, A., 185
- Jameson, R.A., 186
- Schaper, J.A., & Wicks, C.M., 188
- Tinsley, J.C., Hess, J.W., Cowan, D., Hurr, H., & Farr, W., 189
- SEM**  
Veni, G., 189
- Sentino River Gorge**  
Galdenzi, S., & Maruoka, T., 111-125
- Sesquia National Park**  
McDonough, F., 183
- Sewage**  
Halliday, W.R., 68-75
- Sewers**  
Halliday, W.R., 68-75
- Shaly**  
Applegate, P., 126-129
- Shannon County**  
Schaper, J.A., & Wicks, C.M., 188
- Sheaf Structure**  
Self, C.A., & Hill, C.A., 130-151
- Short-Faced Bear**  
Schubert, B.W., & Kaufmann, J.E., 101-110
- Shrimp**  
Porter, M.L., Perez Gonzalez, A., & Perez-Losada, M., 175
- Sierra Madres**  
Andrews, C., 179

- Sierra Madrigal**  
Pisarowicz, J., & Snow, A., 179
- Sierra Mazateca**  
Andrews, C., 179
- Sierra Nevada**  
Elliott, W.R., Rudolph, D.C., Ubick, D., Briggs, T., & Reddell, J.R., 174  
Potter, M., 178
- Silt**  
Schubert, B.W., & Kaufmann, J.E., 101-110
- Sima Pumacocha**  
McKenzie, I., 179
- Sinkhole**  
Denizman, C., 29-35  
Applegate, P., 126-129  
Paylor, R., Florea, L., Caudill, M., & Currens, J., 183  
Fagan, J.E., 185
- Sinkhole Collapse**  
Tinsley, J.C., Hess, J.W., Cowan, D., Hurtt, H., & Farr, W., 189
- Sinkhole Plain**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Sistema Cheve**  
Oliphant, M., & Pistole, N., 179
- Skeleton**  
Schubert, B.W., & Kaufmann, J.E., 101-110
- Skeleton Cave**  
Grady, F., 190
- Skeleton crystals**  
Self, C.A., & Hill, C.A., 130-151
- Slaves**  
Chowdhury, A., 176
- Slime molds**  
Nieves-Rivera, A.M., 22-28
- Slimy Sculpin**  
Espinasa, L., & Jeffery, W.R., 93-100
- Slope**  
Applegate, P., 126-129
- Slovakia**  
Pflitsch, A., & Piasecki, J., 160-173
- Snake River lava tubes**  
Grady, F., & Hubbard, Jr., D.A., 190
- Snieznik Massif**  
Pflitsch, A., & Piasecki, J., 160-173
- Soda Straws**  
Self, C.A., & Hill, C.A., 130-151
- Software**  
Passerby, M., 181
- Soil**  
Ersek, V., Mylroie, J.E., Panuska, B., & Mylroie, J.R., 184-185  
Spilde, M.N., Boston, P.J., & Northup, D.E., 188
- Soldiers Cave**  
Self, C.A., & Hill, C.A., 130-151
- Solid waste**  
Halliday, W.R., 68-75
- Solidad**  
Pisarowicz, J., & Snow, A., 179
- Sorcery**  
Chowdhury, A., 176
- South America**  
Grady, F., 189
- South Dakota**  
Ohms, M.J., 176  
Horrocks, R.D., & Reece, M.A., 176  
Bern, C., 181  
Wiles, M., 182  
Ohms, R., 183  
Spilde, M.N., Boston, P.J., & Northup, D.E., 188
- South Point**  
Coons, D., 181
- Spain**  
Peck, S.B., & Thayer, M.K., 3-8  
Self, C.A., & Hill, C.A., 130-151
- Sparrow Spring**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Spathite**  
Self, C.A., & Hill, C.A., 130-151
- Spatial**  
Denizman, C., 29-35
- Species**  
Zeppelini, D., & Christiansen, K., 36-42
- Speleogenesis**  
Boston, P.J., 183-184  
Engel, A.S., Stern, L.A., & Bennett, P.C., 184  
Lindley, A.L., & Hovorka, S.D., 186  
Queen, J.M., 187
- Speleogens**  
Halliday, W.R., 189
- Speleogens**  
Galdenzi, S., & Maruoka, T., 111-125  
Queen, J.M., 187
- Speleothenms**  
Kempe, S., Bauer, I., & Henschel, H., 76-85  
Galdenzi, S., & Maruoka, T., 111-125  
Self, C.A., & Hill, C.A., 130-151  
Pisarowicz, J., & Snow, A., 179  
Davis, D.G., & Luiszer, F.G., 184  
Queen, J.M., 187  
Polyak, V.J., & Provencio, P.P., 190
- Spencer Mountain**  
Deatrick, J., Hoffelt, J., & Anderson, W.S., 184
- Spherocrystals**  
Self, C.A., & Hill, C.A., 130-151
- Spheroidalities**  
Self, C.A., & Hill, C.A., 130-151
- Spherulite bunches**  
Self, C.A., & Hill, C.A., 130-151
- Spherulites**  
Self, C.A., & Hill, C.A., 130-151
- Spherulitic aggregates**  
Self, C.A., & Hill, C.A., 130-151
- Spider Cave**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21  
Spilde, M.N., Boston, P.J., & Northup, D.E., 188
- Spiders**  
Zawada, M., 180
- Split crystals**  
Self, C.A., & Hill, C.A., 130-151
- Spring Valley Spring Cave**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Springfield Plateau**  
Dom, J.E., & Wicks, C.M., 155-159  
Elliott, W.R., 174
- Springhouses**  
Douglas, J.C., 177
- Springs**  
Halliday, W.R., 68-75  
Ogden, A.E., Kenned, C., Bales, J., James, R., DiVincenzo, J.P., Rebecca, M., & Niese, M., 187
- St. Clair County**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- St. Louis**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Stalagmites**  
Polyak, V.J., Rasmussen, J.B.T., & Asmerom, Y., 187
- State park**  
Kempe, S., & Werner, M.S., 53-67
- Statistics**  
Lindley, A.L., & Hovorka, S.D., 186
- Stefanshellir Cave**  
Halliday, W.R., 190
- Stellerite**  
Self, C.A., & Hill, C.A., 130-151
- Stemler Cave**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Stemler Well**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Stoke patterns**  
Hubbard, Jr., D.A., 177
- Storing food**  
Douglas, J.C., 177
- Stream incision**  
Dom, J.E., & Wicks, C.M., 155-159
- Streams**  
Pflitsch, A., & Piasecki, J., 160-173
- Structure**  
Self, C.A., & Hill, C.A., 130-151
- Stygobite populations**  
Krejca, J.K., 174-175
- Stygobitic**  
Porter, M.L., Perez Gonzalez, A., & Perez-Losada, M., 175
- Stygophilic**  
Taylor, S.J., Wilhelm, F.M., Venarsky, M.P., & Adams, G.L., 175
- Sublimation**  
Sowers, J., Frantz, P., Frantz, B., & Devereaux, B., 190
- Subterranean invertebrates**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Subway Cave**  
Bosted, A., 178
- Sudetes Mountains**  
Pflitsch, A., & Piasecki, J., 160-173
- Sulfate**  
White, W.B., & White, E.L., 43-52  
Galdenzi, S., & Maruoka, T., 111-125
- Sulfuric acid**  
Engel, A.S., Stern, L.A., & Bennett, P.C., 184  
Queen, J.M., 187
- Surtshellir Cave**  
Halliday, W.R., 190
- Survey**  
am Ende, B., & Nyland, L.S., 180  
Andreatta, D., 180  
Bosted, P., 180-181  
Coke, IV, J.G., 181  
Green, D., 181  
Passerby, M., 181
- Susquehanna River**  
Espinasa, L., & Jeffery, W.R., 93-100
- Suwannee River Basin**  
Denizman, C., 29-35
- Swale 1 Mile South of Falling Spring**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Tabasco**  
Pisarowicz, J., & Snow, A., 179
- Tafoni**  
Rogers, B.W., Despain, J., Frantz, W., & Portillo, J., 187-188
- Tahiti**  
Halliday, W.R., 68-75
- Take It For Granite**  
Potter, M., 178
- Talus cave**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21  
Rogers, B.W., Despain, J., Frantz, W., & Portillo, J., 187-188  
Rogers, B.W., 188
- Taxonomic listing**  
Peck, S.B., & Thayer, M.K., 3-8
- Technique**  
Heazlit, C., 178  
am Ende, B., & Nyland, L.S., 180  
Andreatta, D., 180  
Coke, IV, J.G., 181  
Passerby, M., 181-182  
Passerby, M., 181  
Frantz, E., 181  
Pisarowicz, J., Snow, A., & Lester, D., 182  
Addison, A., 182  
McDonough, F., 183  
Hall, M., 185
- Tectonic**  
Stafford, K.W., Keel, T.M., Mylroie, J.E., Mylroie, J.R., & Jenson, J.W., 188  
Veni, G., 189
- Tea Cave**  
Zeppelini, D., & Christiansen, K., 36-42
- Temperature**  
Pflitsch, A., & Piasecki, J., 160-173
- Tennessee**  
Peck, S.B., & Thayer, M.K., 3-8  
Zeppelini, D., & Christiansen, K., 36-42  
Buhay, J., Fetzner, Jr., J., & Crandall, K., 174  
Willey, P., Stolen, J., Crothers, G., & Watson, P.J., 177-178  
Deatrick, J., Hoffelt, J., & Anderson, W.S., 184  
Ogden, A.E., Kenned, C., Bales, J., James, R., DiVincenzo, J.P., Rebecca, M., & Niese, M., 187
- Terceira**  
Halliday, W.R., 68-75
- Terry Spring Cave**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Tertiary Period**  
Denizman, C., 29-35
- Texas**  
Zeppelini, D., & Christiansen, K., 36-42  
Krejca, J.K., 174-175  
Lindley, A.L., & Hovorka, S.D., 186  
Veni, G., 189
- Texture**  
Self, C.A., & Hill, C.A., 130-151
- ThatCave/ThisCave System**  
Kempe, S., & Werner, M.S., 53-67
- The Blue Cave**  
Self, C.A., & Hill, C.A., 130-151
- Thru-the-Earth**  
Pease, B.L., 178-179
- Tinian**  
Stafford, K.W., Taborosi, D., Keel, T.M., Mylroie, J.E., Mylroie, J.R., & Jenson, J.W., 179-180  
Keel, T.M., Stafford, K.W., Mylroie, J.E., Mylroie, J.R., & Jenson, J.W., 186  
Stafford, K.W., Keel, T.M., Mylroie, J.E., Mylroie, J.R., & Jenson, J.W., 188
- Torch materials**  
Hubbard, Jr., D.A., 177
- Torgac Cave**  
Self, C.A., & Hill, C.A., 130-151
- Townsend's Big-Eared Bats**  
Rogers, B.W., Despain, J., Frantz, W., & Portillo, J., 187-188
- Trail**  
Reece, M.A., 176
- Trail construction**  
Horrocks, R.D., & Reece, M.A., 176
- Trash**  
Sowers, J., Frantz, P., Frantz, B., & Devereaux, B., 190
- Travel routes**  
Ohms, R., 183
- Travertine**  
Pisarowicz, J., Snow, A., & Lester, D., 182  
Halliday, W.R., 189
- Tree-Matching techniques**  
Krejca, J.K., 174-175
- Troglobite**  
Peck, S.B., & Thayer, M.K., 3-8
- Trogomorphic**  
Espinasa, L., & Jeffery, W.R., 93-100
- Tropical**  
Nieves-Rivera, A.M., 22-28
- Trout Hollow Spring**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Tufa Creek**  
Schaper, J.A., & Wicks, C.M., 188
- Tufaceous mineral bodies**  
Self, C.A., & Hill, C.A., 130-151
- Tuff**  
Medville, D., & Medville, H., 190
- Tumbling Rock Cave**  
Kambesis, P.N., & Sasowsky, I.D., 186
- Tumulus**  
Halliday, W.R., 189
- Turkmenistan**  
Espinasa, L., & Jeffery, W.R., 93-100  
Self, C.A., & Hill, C.A., 130-151
- Turner Avenue**  
White, W.B., & White, E.L., 43-52
- Turnhole Bend Basin**  
Glennon, A., 182-183
- Twin crystals**  
Self, C.A., & Hill, C.A., 130-151
- Two Row Cave**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- U.S. Congress**  
Hose, L.D., & Boston, P.J., 186
- U.S. Fish & Wildlife Service**  
Espinasa, L., & Jeffery, W.R., 93-100
- Ukraine**  
Self, C.A., & Hill, C.A., 130-151
- Umpqua National Forest**  
Halliday, W.R., 175
- UNESCO**  
Downey, K., 179
- United States**  
Peck, S.B., & Thayer, M.K., 3-8
- Uranium series dating**  
Galdenzi, S., & Maruoka, T., 111-125
- US Forest Service**  
Halliday, W.R., 175
- Utah**  
Halliday, W.R., 68-75
- Valley & Ridge**  
Espinasa, L., & Jeffery, W.R., 93-100
- Valley wall conduit**  
Kambesis, P.N., & Sasowsky, I.D., 186
- Ventilation**  
Pflitsch, A., & Piasecki, J., 160-173
- Vents**  
Queen, J.M., 187

**Veolker Well**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Vertebrates**  
Grady, F., 190  
Grady, F., & Hubbard, Jr., D.A., 190

**Vertical**  
Heazlit, C., 178

**Vidgilmir Cave**  
Halliday, W.R., 190

**Virgin Cave**  
Queen, J.M., 176

**Virginia**  
Peck, S.B., & Thayer, M.K., 3-8  
Zeppelini, D., & Christiansen, K., 36-42  
Hubbard, Jr., D.A., 177  
Fagan, J.E., 185

**Visual**  
Porter, M.L., Perez Gonzalez, A., & Perez-Losada, M., 175

**Vulcanospeleology**  
Halliday, W.R., 190

**W. H. Karst Window**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**W. H. Spring**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Waiakea Springs**  
Halliday, W.R., 68-75

**Walls 2D**  
McKenzie, D., & Veni, G., 183

**Walsh Cave**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Walsh Seep**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Walsh Spring**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Walsh Spring Cave**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Wandas Waterfall Cave**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Wannabe Karst Window Cave**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**War**  
Smith, M.O., 177

**Washington**  
Zeppelini, D., & Christiansen, K., 36-42

**Water**  
Douglas, J.C., 177

**Water Falls**  
Kempe, S., & Werner, M.S., 53-67

**Water Quality**  
Hall, M.D., 182

Ogden, A.E., Kenned, C., Bales, J., James, R., DiVincenzo, J.P., Rebecca, M., & Niese, M., 187

**Wavellite**  
Self, C.A., & Hill, C.A., 130-151

**Wedging**  
White, W.B., & White, E.L., 43-52

**Wednesday Cave**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Wells**  
Bixby, R.L., & Sasowsky, I.D., 183

**West Virginia**  
Zeppelini, D., & Christiansen, K., 36-42  
White, W.B., & White, E.L., 43-52  
Schneider, K., & Culver, D.C., 175  
Passerby, M., 182

Curry, M.D., Sasowsky, I.D., & Shank, D.A., 184  
Hall, M., 185

**Wetbag**  
Addison, A., 182

**Wildes Cave**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Wind Cave**  
Horrocks, R.D., & Reece, M.A., 176  
Bern, C., 181

**Wind Cave National Park**  
Ohms, M.J., 176

**Windy Mouth Cave**  
Curry, M.D., Sasowsky, I.D., & Shank, D.A., 184

**Wisconsinan Glacial**  
Espinasa, L., & Jeffery, W.R., 93-100

**World Heritage Status**  
Downey, K., 179

**World War-II**  
Stafford, K.W., Taborosi, D., Keel, T.M., Mylroie, J.E., Mylroie, J.R., & Jenson, J.W., 179-180

**Wyoming**  
Pisarowicz, J., Snow, A., & Lester, D., 182  
Halliday, W.R., 189

**X-Ray diffraction**  
Kempe, S., & Werner, M.S., 53-67  
Kempe, S., Bauer, I., & Henschel, H., 76-85  
Veni, G., 189

**Yellowstone National Park**  
Pisarowicz, J., Snow, A., & Lester, D., 182  
Halliday, W.R., 189

**Zicafoose Blowhole**  
Passerby, M., 182

**Zonalcentroid**  
Denizman, C., 29-35

BIOLOGIC NAMES INDEX

**Aegla cavernicola**  
Porter, M.L., Perez Gonzalez, A., & Perez-Losada, M., 175

**Agelenidae**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Amblyopsis spelaea**  
Espinasa, L., & Jeffery, W.R., 93-100

**Amphipoda**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21  
Taylor, S.J., Wilhelm, F.M., Venarsky, M.P., & Adams, G.L., 175

**Amphiposa**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Antromys cubanica**  
Porter, M.L., Perez Gonzalez, A., & Perez-Losada, M., 175

**Arachnida**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Araneeae**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Arctodus pristinus**  
Schubert, B.W., & Kaufmann, J.E., 101-110

**Arctodus simus**  
Schubert, B.W., & Kaufmann, J.E., 101-110

**Arrhopalites**  
Zeppelini, D., & Christiansen, K., 36-42

**Arthropoda**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Ascomycota**  
Nieves-Rivera, A.M., 22-28

**Asellidae**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Basidiomycota**  
Nieves-Rivera, A.M., 22-28

**Basommatophora**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Campeodeidae**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Canis lupus**  
Grady, F., & Hubbard, Jr., D.A., 190

**Carabidae**  
Peck, S.B., & Thayer, M.K., 3-8

**Carabidae**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Carnivora bowdich**  
Schubert, B.W., & Kaufmann, J.E., 101-110

**Carychiidae**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Chordeumatida**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Chromista**  
Nieves-Rivera, A.M., 22-28

**Chthoniidae**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Chytridiomycota**  
Nieves-Rivera, A.M., 22-28

**Coleoptera**  
Peck, S.B., & Thayer, M.K., 3-8  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Collembola**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21  
Zeppelini, D., & Christiansen, K., 36-42

**Conotylidae**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Crangonyctidae**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Crustacea**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Dictyosteliomycota**  
Nieves-Rivera, A.M., 22-28

**Diplopoda**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Diplura**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Diptera**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Entomobryidae**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Equus**  
Grady, F., & Hubbard, Jr., D.A., 190

**Equus conversidens**  
Grady, F., 190

**Gammaridae**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Gammarus acherondytes**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

Taylor, S.J., Wilhelm, F.M., Venarsky, M.P., & Adams, G.L., 175  
Moss, P.L., 187

**Gastropoda**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Gryllacrididae**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Gulo gulo**  
Grady, F., & Hubbard, Jr., D.A., 190

**Hadenocercus cumberlandicus**  
Hobbs, III, H.H., & Lawyer, R., 174

**Helicodiscidae**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Histoplasma capsulatum**  
Nieves-Rivera, A.M., 22-28

**Hypogastruridae**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Insecta**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Ichtyrosalidae**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Isopoda**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Kenkiidae**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Leiostomidae**  
Peck, S.B., & Thayer, M.K., 3-8  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Linyphiidae**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Lirceus usdagalun**  
Fagan, J.E., 185

**Macrosternodesmidae**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Marmota flaviventris**  
Grady, F., & Hubbard, Jr., D.A., 190

**Microtus**  
Grady, F., & Hubbard, Jr., D.A., 190

**Mollusca**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Mycota**  
Nieves-Rivera, A.M., 22-28

**Myotis**  
Grady, F., & Hubbard, Jr., D.A., 190

**Myotis grisescens**

Schubert, B.W., & Kaufmann, J.E., 101-110

**Mysmenidae**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Myxomycota**  
Nieves-Rivera, A.M., 22-28

**Nearctodesmidae**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Nemacheilus starostini**  
Espinasa, L., & Jeffery, W.R., 93-100

**Neotaenioglossa**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Neotoma lepida**  
Grady, F., & Hubbard, Jr., D.A., 190

**Omaliinae**  
Peck, S.B., & Thayer, M.K., 3-8

**Oncopoduridae**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Onychiuridae**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Orconectes**  
Buhay, J., Fetzner, Jr., J., & Crandall, K., 174

**Orthoptera**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Oxytelinae**  
Peck, S.B., & Thayer, M.K., 3-8

**Paederinae**  
Peck, S.B., & Thayer, M.K., 3-8

**Panthera atrox**  
Grady, F., 190

**Perognathus parvus**  
Grady, F., & Hubbard, Jr., D.A., 190

**Peromyscus**  
Grady, F., & Hubbard, Jr., D.A., 190

**Phalangida**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Philomycidae**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Pisces: Cottidae**  
Espinasa, L., & Jeffery, W.R., 93-100

**Platylimnithes**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21

**Plecotus townsendii**  
Halliday, W.R., 175  
Grady, F., & Hubbard, Jr., D.A., 190

**Phionarctos**  
Schubert, B.W., & Kaufmann, J.E., 101-110



- Polydesmida**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Polygyridae**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Proteininae**  
Peck, S.B., & Thayer, M.K., 3-8
- Pseudoscorpiones**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Pupillidae**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Sminthuridae**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Sphaeroceridae**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Spilogale putorius**  
Grady, F., & Hubbard, Jr., D.A., 190
- Staphylinid**  
Peck, S.B., & Thayer, M.K., 3-8
- Staphylinidae**  
Peck, S.B., & Thayer, M.K., 3-8  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Staphylininae**  
Peck, S.B., & Thayer, M.K., 3-8
- Steninae**  
Peck, S.B., & Thayer, M.K., 3-8
- Stylommatophora**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Sylvilagus idahoensis**  
Grady, F., & Hubbard, Jr., D.A., 190
- Tachyporinae**  
Peck, S.B., & Thayer, M.K., 3-8
- Taxidea taxus**  
Grady, F., & Hubbard, Jr., D.A., 190
- Thomomys talpoides**  
Grady, F., & Hubbard, Jr., D.A., 190
- Tomoceridae**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Trichophyinae**  
Peck, S.B., & Thayer, M.K., 3-8
- Tricladida**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Turbellaria**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Ursidae gray**  
Schubert, B.W., & Kaufmann, J.E., 101-110
- Ursus arctos**  
Grady, F., & Hubbard, Jr., D.A., 190
- Zonitidae**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Zygomycota**  
Nieves-Rivera, A.M., 22-28

## AUTHOR INDEX

- Adams, G.L.**  
Taylor, S.J., Wilhelm, F.M., Venarsky, M.P., & Adams, G.L., 175
- Addison, A.**  
Addison, A., 179: 182
- am Ende, B.**  
am Ende, B., & Nyland, L.S., 180
- Anderson, W.S.**  
Deatrick, J., Hoffelt, J., & Anderson, W.S., 184
- Andreatta, D.**  
Andreatta, D., 180
- Andrews, C.**  
Andrews, C., 179
- Applegate, P.**  
Applegate, P., 126-129
- Asmerom, Y.**  
Polyak, V.J., Rasmussen, J.B.T., & Asmerom, Y., 187
- Bailey, Z.C.**  
Hose, L.D., Bailey, Z.C., Land, L., & Boston, P.J., 185
- Bales, J.**  
Ogden, A.E., Kenned, C., Bales, J., James, R., DiVincenzo, J.P., Rebecca, M., & Niese, M., 187
- Bauer, I.**  
Kempe, S., Bauer, I., & Henschel, H., 76-85
- Bennett, P.C.**  
Engel, A.S., Stern, L.A., & Bennett, P.C., 184
- Bern, C.**  
Bern, C., 181
- Bixby, R.L.**  
Bixby, R.L., & Sasowsky, I.D., 183
- Bosted, A.**  
Bosted, A., 178
- Bosted, P.**  
Bosted, P., 178: 180-181
- Boston, P.J.**  
Boston, P., 87: 183-184  
Hose, L.D., & Boston, P.J., 175: 186  
Hose, L.D., Bailey, Z.C., Land, L., & Boston, P.J., 185  
Spilde, M.N., Boston, P.J., & Northup, D.E., 188
- Briggs, T.**  
Elliott, W.R., Rudolph, D.C., Ubick, D., Briggs, T., & Reddell, J.R., 174
- Buhay, J.**  
Buhay, J., Fetzner, Jr., J., & Crandall, K., 174
- Caudill, M.**  
Paylor, R., Florea, L., Caudill, M., & Currens, J., 183
- Chowdhury, A.**  
Chowdhury, A., 176
- Christiansen, K.**  
Zeppelini, D., & Christiansen, K., 36-42
- Coke, IV, J.G.**  
Coke, IV, J.G., 178: 181
- Coons, D.**  
Coons, D., 181: 189: 190
- Cowan, D.**  
Tinsley, J.C., Hess, J.W., Cowan, D., Hurtt, H., & Farr, W., 189
- Crandall, K.**  
Buhay, J., Fetzner, Jr., J., & Crandall, K., 174
- Cressler, A.**  
Simek, J.F., & Cressler, A., 177
- Crothers, G.**  
Crothers, G., Ward, R., & Swedlund, C., 176-177  
Willey, P., Stolen, J., Crothers, G., & Watson, P.J., 177-178
- Culver, D.C.**  
Schneider, K., & Culver, D.C., 175
- Currens, J.**  
Paylor, R., Florea, L., Caudill, M., & Currens, J., 183
- Curry, M.D.**  
Curry, M.D., Sasowsky, I.D., & Shank, D.A., 184
- Davis, D.G.**  
Davis, D.G., & Luiszer, F.G., 184
- Deatrick, J.**  
Deatrick, J., Hoffelt, J., & Anderson, W.S., 184
- Denizman, C.**  
Denizman, C., 29-35
- Despain, J.**  
Fryer, S., Despain, J., Downey, K., & Walck, C., 179  
Despain, J., 181  
Rogers, B.W., Despain, J., Frantz, W., & Portillo, J., 187-188
- Devereaux, B.**  
Sowers, J., Frantz, P., Frantz, B., & Devereaux, B., 190
- DiVincenzo, J.P.**  
Ogden, A.E., Kenned, C., Bales, J., James, R., DiVincenzo, J.P., Rebecca, M., & Niese, M., 187
- Dom, J.E.**  
Dom, J.E., & Wicks, C.M., 155-159
- Douglas, J.C.**  
Douglas, J.C., 177: 189
- Downey, K.**  
Downey, K., 179  
Fryer, S., Despain, J., Downey, K., & Walck, C., 179
- Elliott, W.R.**  
Elliott, W.R., Rudolph, D.C., Ubick, D., Briggs, T., & Reddell, J.R., 174
- Engel, A.S.**  
Engel, A.S., Stern, L.A., & Bennett, P.C., 184
- Ersek, V.**  
Ersek, V., Mylroie, J.E., Panuska, B., & Mylroie, J.R., 184-185
- Espinasa, L.**  
Espinasa, L., & Jeffery, W.R., 93-100
- Fagan, J.E.**  
Fagan, J.E., 185
- Farr, W.**  
Tinsley, J.C., Hess, J.W., Cowan, D., Hurtt, H., & Farr, W., 189
- Fetzner, Jr., J.**  
Buhay, J., Fetzner, Jr., J., & Crandall, K., 174
- Florea, L.**  
Paylor, R., Florea, L., Caudill, M., & Currens, J., 183
- Florea, L.J.**  
Florea, L.J., Mylroie, J.E., & Price, A., 185
- Frantz, B.**  
Sowers, J., Frantz, P., Frantz, B., & Devereaux, B., 190
- Frantz, E.**  
Frantz, E., 181
- Frantz, P.**  
Sowers, J., Frantz, P., Frantz, B., & Devereaux, B., 190
- Frantz, W.**  
Rogers, B.W., Despain, J., Frantz, W., & Portillo, J., 187-188
- Fryer, S.**  
Fryer, S., Despain, J., Downey, K., & Walck, C., 179
- Galdenzi, S.**  
Galdenzi, S., & Maruoka, T., 111-125
- Glennon, A.**  
Glennon, A., 182-183
- Grady, F.**  
Grady, F., 189: 190  
Grady, F., & Hubbard, Jr., D.A., 190
- Green, D.**  
Green, D., 181
- Grgich, P.**  
Grgich, P., & Hammack, R., 185
- Hall, M.**  
Hall, M., 185
- Hall, M.D.**  
Hall, M.D., 182
- Halliday, W.R.**  
Halliday, W.R., 68-75: 86: 175: 182: 189: 190
- Hammack, R.**  
Grgich, P., & Hammack, R., 185
- Haye, M.**  
Rogers, B.W., Snyder, D., Haye, M., & Randall, I.E., 178
- Heazlit, C.**  
Heazlit, C., 178
- Henschel, H.**  
Kempe, S., Bauer, I., & Henschel, H., 76-85
- Hess, J.W.**  
Tinsley, J.C., Hess, J.W., Cowan, D., Hurtt, H., & Farr, W., 189
- Hill, C.A.**  
Self, C.A., & Hill, C.A., 130-151
- Hobbs, III, H.H.**  
Hobbs, III, H.H., & Lawyer, R., 174
- Hoffelt, J.**  
Deatrick, J., Hoffelt, J., & Anderson, W.S., 184
- Horrocks, R.D.**  
Horrocks, R.D., & Reece, M.A., 176
- Hose, L.D.**  
Hose, L.D., & Boston, P.J., 175: 186  
Hose, L.D., Bailey, Z.C., Land, L., & Boston, P.J., 185
- Hovorka, S.D.**  
Lindley, A.L., & Hovorka, S.D., 186
- Hubbard, Jr., D.A.**  
Hubbard, Jr., D.A., 177  
Grady, F., & Hubbard, Jr., D.A., 190
- Hurt, H.**  
Tinsley, J.C., Hess, J.W., Cowan, D., Hurtt, H., & Farr, W., 189
- James, R.**  
Ogden, A.E., Kenned, C., Bales, J., James, R., DiVincenzo, J.P., Rebecca, M., & Niese, M., 187
- Jameson, R.A.**  
Jameson, R.A., 186
- Jeffery, W.R.**  
Espinasa, L., & Jeffery, W.R., 93-100
- Jenson, J.W.**  
Stafford, K.W., Taborosi, D., Keel, T.M., Mylroie, J.E., Mylroie, J.R., & Jenson, J.W., 179-180  
Keel, T.M., Stafford, K.W., Mylroie, J.E., Mylroie, J.R., & Jenson, J.W., 186  
Stafford, K.W., Keel, T.M., Mylroie, J.E., Mylroie, J.R., & Jenson, J.W., 188
- Kambesis, P.N.**  
Kambesis, P.N., & Sasowsky, I.D., 186
- Kaufmann, J.E.**  
Schubert, B.W., & Kaufmann, J.E., 101-110
- Keel, T.M.**  
Stafford, K.W., Taborosi, D., Keel, T.M., Mylroie, J.E., Mylroie, J.R., & Jenson, J.W., 179-180  
Keel, T.M., Stafford, K.W., Mylroie, J.E., Mylroie, J.R., & Jenson, J.W., 186  
Stafford, K.W., Keel, T.M., Mylroie, J.E., Mylroie, J.R., & Jenson, J.W., 188
- Kempe, S.**  
Kempe, S., & Werner, M.S., 53-67  
Kempe, S., Bauer, I., & Henschel, H., 76-85
- Kenned, C.**  
Ogden, A.E., Kenned, C., Bales, J., James, R., DiVincenzo, J.P., Rebecca, M., & Niese, M., 187
- King, L.**  
King, L., 177
- Krejca, J.K.**  
Krejca, J.K., 174-175
- Land, L.**  
Hose, L.D., Bailey, Z.C., Land, L., & Boston, P.J., 185
- Lawyer, R.**  
Hobbs, III, H.H., & Lawyer, R., 174
- Lester, D.**  
Pisarowicz, J., Snow, A., & Lester, D., 182
- Lewis, J.J.**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Lindley, A.L.**  
Lindley, A.L., & Hovorka, S.D., 186
- Luiszer, F.G.**  
Davis, D.G., & Luiszer, F.G., 184
- Lyles, J.T.M.**  
Lyles, J.T.M., 182
- Maruoka, T.**  
Galdenzi, S., & Maruoka, T., 111-125
- McDonough, F.**  
McDonough, F., 183
- McKenzie, D.**  
McKenzie, D., & Veni, G., 183
- McKenzie, I.**  
McKenzie, I., 179
- Medville, D.**  
Medville, D., & Medville, H., 190  
Medville, D., & Medville, H., 190
- Moss, P.**  
Lewis, J.J., Moss, P., Tecic, D., & Nelson, M.E., 9-21
- Moss, P.L.**  
Moss, P.L., 187

- Mylroie, J.E.**  
Roth, M., Zellner, K., & Mylroie, J., 188  
Stafford, K.W., Taborosi, D., Keel, T.M.,  
Mylroie, J.E., Mylroie, J.R., & Jenson,  
J.W., 179-180  
Ersek, V., Mylroie, J.E., Panuska, B., &  
Mylroie, J.R., 184-185  
Florea, L.J., Mylroie, J.E., & Price, A.,  
185  
Keel, T.M., Stafford, K.W., Mylroie, J.E.,  
Mylroie, J.R., & Jenson, J.W., 186  
Stafford, K.W., Keel, T.M., Mylroie, J.E.,  
Mylroie, J.R., & Jenson, J.W., 188
- Mylroie, J.R.**  
Stafford, K.W., Taborosi, D., Keel, T.M.,  
Mylroie, J.R., & Jenson, J.W., 186  
J.W., 179-180  
Ersek, V., Mylroie, J.E., Panuska, B., &  
Mylroie, J.R., 184-185  
Keel, T.M., Stafford, K.W., Mylroie, J.E.,  
Mylroie, J.R., & Jenson, J.W., 186  
Stafford, K.W., Keel, T.M., Mylroie, J.E.,  
Mylroie, J.R., & Jenson, J.W., 188
- Nelson, M.E.**  
Lewis, J.J., Moss, P., Tecic, D., &  
Nelson, M.E., 9-21
- Niese, M.**  
Ogden, A.E., Kenned, C., Bales, J.,  
James, R., DiVincenzo, J.P., Rebecca,  
M., & Niese, M., 187
- Nieves-Rivera, A.M.**  
Nieves-Rivera, A.M., 22-28
- Northup, D.E.**  
Spilde, M.N., Boston, P.J., & Northup,  
D.E., 188
- Nyland, L.S.**  
am Ende, B., & Nyland, L.S., 180
- Ogden, A.E.**  
Ogden, A.E., Kenned, C., Bales, J.,  
James, R., DiVincenzo, J.P., Rebecca,  
M., & Niese, M., 187
- Ohms, M.J.**  
Ohms, M.J., 176
- Ohms, R.**  
Ohms, R., 183
- Oliphant, M.**  
Oliphant, M., & Pistole, N., 179
- Panuska, B.**  
Ersek, V., Mylroie, J.E., Panuska, B., &  
Mylroie, J.R., 184-185
- Passerby, M.**  
Passerby, M., 181: 182
- Paylor, R.**  
Paylor, R., Florea, L., Caudill, M., &  
Currens, J., 183
- Pease, B.L.**  
Pease, B.L., 178-179
- Peck, S.B.**  
Peck, S.B., & Thayer, M.K., 3-8
- Perez Gonzalez, A.**  
Porter, M.L., Perez Gonzalez, A., &  
Perez-Losada, M., 175
- Perez-Losada, M.**  
Porter, M.L., Perez Gonzalez, A., &  
Perez-Losada, M., 175
- Pflitsch, A.**  
Pflitsch, A., & Piasecki, J., 160-173
- Piasecki, J.**  
Pflitsch, A., & Piasecki, J., 160-173
- Pisarowicz, J.**  
Pisarowicz, J., & Snow, A., 179  
Pisarowicz, J., Snow, A., & Lester, D.,  
182
- Pistole, N.**  
Oliphant, M., & Pistole, N., 179
- Polyak, V.J.**  
Polyak, V.J., Rasmussen, J.B.T., &  
Asmerom, Y., 187  
Polyak, V.J., & Provencio, P.P., 190
- Porter, M.L.**  
Porter, M.L., Perez Gonzalez, A., &  
Perez-Losada, M., 175
- Portillo, J.**  
Rogers, B.W., Despain, J., Frantz, W., &  
Portillo, J., 187-188
- Potter, M.**  
Potter, M., 178
- Price, A.**  
Florea, L.J., Mylroie, J.E., & Price, A.,  
185
- Provencio, P.P.**  
Polyak, V.J., & Provencio, P.P., 190
- Queen, J.M.**  
Queen, J.M., 176: 187
- Randall, I.E.**  
Rogers, B.W., Snyder, D., Haye, M., &  
Randall, I.E., 178
- Rasmussen, J.B.T.**  
Polyak, V.J., Rasmussen, J.B.T., &  
Asmerom, Y., 187
- Rebecca, M.**  
Ogden, A.E., Kenned, C., Bales, J.,  
James, R., DiVincenzo, J.P., Rebecca,  
M., & Niese, M., 187
- Reddell, J.R.**  
Elliott, W.R., Rudolph, D.C., Ubick, D.,  
Briggs, T., & Reddell, J.R., 174
- Reece, M.A.**  
Horrocks, R.D., & Reece, M.A., 176  
Reece, M.A., 176
- Rogers, B.W.**  
Rogers, B.W., Snyder, D., Haye, M., &  
Randall, I.E., 178  
Rogers, B.W., Despain, J., Frantz, W., &  
Portillo, J., 187-188  
Rogers, B.W., 188
- Roth, M.**  
Roth, M., Zellner, K., & Mylroie, J., 188
- Rudolph, D.C.**  
Elliott, W.R., Rudolph, D.C., Ubick, D.,  
Briggs, T., & Reddell, J.R., 174
- Sasowsky, I.D.**  
Bixby, R.L., & Sasowsky, I.D., 183  
Curry, M.D., Sasowsky, I.D., & Shank,  
D.A., 184  
Kambesis, P.N., & Sasowsky, I.D., 186
- Schaper, J.A.**  
Schaper, J.A., & Wicks, C.M., 188
- Schneider, K.**  
Schneider, K., & Culver, D.C., 175
- Schubert, B.W.**  
Schubert, B.W., & Kaufmann, J.E., 101-  
110
- Self, C.A.**  
Self, C.A., & Hill, C.A., 130-151
- Shank, D.A.**  
Curry, M.D., Sasowsky, I.D., & Shank,  
D.A., 184
- Simek, J.F.**  
Simek, J.F., & Cressler, A., 177
- Smith, M.O.**  
Smith, M.O., 177
- Snow, A.**  
Pisarowicz, J., & Snow, A., 179  
Pisarowicz, J., Snow, A., & Lester, D.,  
182
- Snyder, D.**  
Rogers, B.W., Snyder, D., Haye, M., &  
Randall, I.E., 178
- Sowers, J.**  
Sowers, J., Frantz, P., Frantz, B., &  
Devereaux, B., 190
- Spilde, M.N.**  
Spilde, M.N., Boston, P.J., & Northup,  
D.E., 188
- Stafford, K.W.**  
Stafford, K.W., Taborosi, D., Keel, T.M.,  
Mylroie, J.E., Mylroie, J.R., & Jenson,  
J.W., 179-180  
Keel, T.M., Stafford, K.W., Mylroie, J.E.,  
Mylroie, J.R., & Jenson, J.W., 186  
Stafford, K.W., Keel, T.M., Mylroie, J.E.,  
Mylroie, J.R., & Jenson, J.W., 188
- Stern, L.A.**  
Engel, A.S., Stern, L.A., & Bennett, P.C.,  
184
- Stolen, J.**  
Willey, P., Stolen, J., Crothers, G., &  
Watson, P.J., 177-178
- Stone, B.**  
Stone, B., 180
- Swedlund, C.**  
Crothers, G., Ward, R., & Swedlund, C.,  
176-177
- Szukalski, B.**  
Szukalski, B., 178
- Taborosi, D.**  
Stafford, K.W., Taborosi, D., Keel, T.M.,  
Mylroie, J.E., Mylroie, J.R., & Jenson,  
J.W., 179-180
- Taylor, S.J.**  
Taylor, S.J., Wilhelm, F.M., Venarsky,  
M.P., & Adams, G.L., 175
- Tecic, D.**  
Lewis, J.J., Moss, P., Tecic, D., &  
Nelson, M.E., 9-21
- Thayer, M.K.**  
Peck, S.B., & Thayer, M.K., 3-8
- Tinsley, J.C.**  
Tinsley, J.C., Hess, J.W., Cowan, D.,  
Hurt, H., & Farr, W., 189
- Ubick, D.**  
Elliott, W.R., Rudolph, D.C., Ubick, D.,  
Briggs, T., & Reddell, J.R., 174
- Venarsky, M.P.**  
Taylor, S.J., Wilhelm, F.M., Venarsky,  
M.P., & Adams, G.L., 175
- Veni, G.**  
Veni, G., 180: 189
- McKenzie, D.**  
McKenzie, D., & Veni, G., 183
- Walck, C.**  
Fryer, S., Despain, J., Downey, K., &  
Walck, C., 179
- Ward, R.**  
Crothers, G., Ward, R., & Swedlund, C.,  
176-177
- Watson, P.J.**  
Willey, P., Stolen, J., Crothers, G., &  
Watson, P.J., 177-178
- Werner, M.S.**  
Kempe, S., & Werner, M.S., 53-67
- White, E.L.**  
White, W.B., & White, E.L., 43-52
- White, W.B.**  
White, W.B., & White, E.L., 43-52  
White, W.B., 91-92
- Wicks, C.M.**  
Dom, J.E., & Wicks, C.M., 155-159  
Schaper, J.A., & Wicks, C.M., 188
- Wiles, M.**  
Wiles, M., 182
- Wilhelm, F.M.**  
Taylor, S.J., Wilhelm, F.M., Venarsky,  
M.P., & Adams, G.L., 175
- Willey, P.**  
Willey, P., Stolen, J., Crothers, G., &  
Watson, P.J., 177-178
- Zawada, M.**  
Zawada, M., 180
- Zellner, K.**  
Roth, M., Zellner, K., & Mylroie, J., 188
- Zeppelini, D.**  
Zeppelini, D., & Christiansen, K., 36-42