

Index to *New Mexico Geology*, volume 22

A

Abiquiu Formation 48.
Abo Formation 40, 45, 52.
Abo Pass 45.
Abstracts
MS theses and PhD dissertations 75–85.
New Mexico Mineral Symposium 10–17.
NMGs spring meeting 37–55.

aeromagnetic data 44.
agate 69.
Alamitos Formation 43.
Albuquerque Basin 42, 49, 50, 76.
Allen, B. D. 50, 53.
alpine catchments 41.
Amarante, J. F. A. 47.
Amato, J. M. 48.
ammonite 1–7.
Anadarko Basin 37.
Ancestral Rocky Mountains 37.
Ancha Formation 43, 44.
Anderson, R. Y. 53.
Animas Range 68.
Apache Indians 67.
apatite fission-track thermochronology 37, 75.
Arenal alluvium 49.
Armour, J. 41.
Arroyo de la Parida 47.
Ash Creek Series 37.
ash-flow tuff 26, 68.
Atrasado Formation 40.
augite coronas 38.

B

Baja, Mexico 15.
Bales, C. K. 53.
Bandelier magma system 38.
Bandelier Tuff 41, 42.
Barringer fault 11.
Basin and Range 48, 66, 82.
Bauer, P. W. 43.
Bauman, S. L. 75.
Bearwallow Mountain Andesite 49.
Behr, R.-A. 75.
Benson, R. D. 89–100.
Big Burro Mountains 82.
Big Hatchet Mountains 21.
Bird, J. K. 82.
Bisbee Basin 1.
Bishop magma system 38.
Bishop Tuff 85.
Bishop's Lodge Member 43.
Black Mountain 66.
Black Range 69.
Bloodgood Canyon Rhyolite Tuff 49.
Blue Springs Schist 58.
Bone Spring Formation 78.
book reviews 17, 86.

Boot Heel volcanic field 68.
Brister, B. S. 47, 54.
Broadhead, R. F. 39, 101–107.
Broken Jug Formation 48.
Bruton Formation 40.
Bullard Peak Series 37.
Burro Mountains 37, 66.
Bursum Formation 40, 45, 51.
Butte fault 83.

C

Caballo Mountains 40.
Calaveras Canyon 41.
Cambrian 84.
Camp Furlong 18.
Camp Rice Formation 39.
Cañada del Agua 85.
Canadian River 85.
Cañoncito fault system 44.
Cañones fault 48.
Capilla Peak area 57–63.
Capitan pluton 77.
Capulin Canyon 50.
carbonate 82.
Carlsbad Caverns National Park 39.
Carpenter, S. L. 44.
Carrizozo Basin 39.
Carrizozo lava flow 75.
Cenozoic 37, 48, 82, 85.
Cerrillos Hills 42.
chalcopyrite 12.
Chegem Tuff 85.
Chinle Group 46, 52.
Chiricahua Mountains, AZ 1–7.
Cholla Generating Station 28.

Chuar Group 83.
Cleary, M. S. 48.
Cliff Dweller Canyon 48.
coal 25.
Cobre Mountains 66.
Colorado Formation 11.
Colorado Plateau 37, 48, 82, 85.
Columbus 18.
Connell, S. D. 47, 49.
Continental mines 11.
Cooper, S. C. 53, 75.
Copperas Peak fault 82.
Cordilleran Foreland Basin, UT 81.
Coronado Generating Station 25.
corrosion residue 39.
Counties
Doña Ana 39, 51, 67.
Eddy 47.
Grant 11, 37, 67.
Guadalupe 47.
Hidalgo 68.
Luna 12, 13, 19, 67.
Mora 65.
San Miguel 14.
Sandoval 52.
Sierra 78.

Coyote Basin, UT 84.
Cretaceous 11, 75, 81, 84.
Crossey, L. J. 39, 41, 50.
Crystal Cave Formation 1.

D

D'Andrea, N. V. 51.
Dakota Formation 51.
Dalness, A. 64.
dehydration properties 65.
Delaware Basin 79.
DeMark, R. S. 13.
DeRosa, G. 76.
diatomaceous earth 26.
Dinterman, P. A. 40, 54, 55.
Dober, M. 39.
Domitrovic, A. M. 15.
Dotson, K. E. 39.
Drakos, P. G. 44.
Dunbar, N. W. 12, 38, 54, 66–71.

E

Earp Formation 21.
earth tides 64.
earthquake 39.
Edith formation 49.
El Cajete pumice 38.
El Paso Formation 11.
El Rito Formation 48.
electron microprobe 12.
Entrada Sandstone 48.
Eocene 42, 43.
Española Basin 42, 43, 44.
Espinazo Formation 42, 44.
Estancia Basin 39, 53.
Ewing, R. C. 14.

F

Fawcett, P. J. 41.
Ferron Sandstone, UT 84.
Finch, S. T., Jr. 44.
Florida Gap 66.
Florida Mountains 20, 21, 66.
Florida Peak 67.
fluid inclusions 77.
fly ash 25–36, 63.
Franklin Mountains 40.
Fresnal Group 51.
Frost, J. P. 43.
Furgal, S. 54.
Fusselman Formation 12.

G

Gait, R. I. 72.
Galisteo Basin 44.
Galisteo Creek 43, 44.
Galisteo Formation 42, 44.
Gardner, J. N. 38.
geochemistry 37, 39, 50, 76, 78, 80.
geochronology 38, 43, 68, 77, 83.
⁴⁰Ar/³⁹Ar 20, 37, 38, 43, 61, 68, 77, 85.
geodes 69.
geographic names 85.

geologic history 89–100.
geomorphology 41.
geothermal systems 39.
Gere, T. 41.
Ghost Ranch 46.
Gila Cliff Dwellings National Monument 48.
Gila Conglomerate 48, 82.
GIS technology 54–55.
Global Positioning System 54.
Glorieta Formation 40.
Goldstein, H. L. 49.
Gonzales, D. 65.
Goodwin, L. B. 57–63.
Grand Canyon Supergroup 83.
Grant, P. R., Jr. 42.
Grants Ridge 85.
Grauch, V. J. S. 44.
Gray Mesa Formation 40.
Gregor, N. 39.
Grenville orogeny 58.
Groffman, A. 41.
ground water 42, 43, 44, 50, 76, 77, 78, 82–83.

H

Haapala, I. 37.
Hagan, L. B. 50.
Hamilton mine 14.
Hansen Creek 50.
Harpel, C. J. 43.
Harrison, J. B. J. 49, 50, 53.
Hart, B. 53.
Hawley, J. W. 55.
hazard maps 39.
heavy metals 76.
Heckert, A. B. 46, 51.
Heizler, M. 37.
Hemmerich, M. J. 37.
Hendrickx, J. M. H. 50, 53.
Herrin, M. 53.
High Plains 37.
High Plateaus, UT 81.
Hillsboro mining district 78.
Hlava, P. F. 16.
Hoffman, G. K. 25–36.
Holder Formation 81.
Horquilla Limestone 21.
House Range, UT 84.
Hudson, M. R. 44.
Hueco Limestone 51.
Hurley smelter 66.
hydrogeology 39, 41–44, 50, 76, 78, 80, 82–83, 86.
hydrothermal systems 85.

I

ion transport 77.

J

Jack Creek rapakivi granite 37.
Jemez lineament 37, 85.
Jemez Mountains 38, 41.
Johnson, M. 54, 55.
Johnson, S. C. 44, 45.

Jones, G. 54, 55.
Jones, J. M. 81.
Jornada fault zone 39.
Juniper caldera 68.
Jurassic 1, 48.

K

Kaiparowits Formation, UT 81.
Kaiparowits Plateau, UT 81.
Karlstrom, K. E. 37.
Keating, G. N. 85.
Kelley, S. A. 37, 43, 47.
Kennedy, J. F. 54, 55.
Kilbourne Hole maar 14.
Kinney Brick Quarry 44.
Knaus, M. J. 45.
Kondrashov, P. E. 46.
Kosunen, P. J. 37.
Krainer, K. 40, 45, 51.
Kues, B. S. 40, 45, 51.
Kulis, J. 76.

L

La Mesa surface 50.
La Posada Formation 43.
Lake Estancia 53.
Lake Katherine 41.
Lake Valley Formation 11.
Laramide 43, 48, 75, 83, 85.
Las Cañas surface 50.
Las Huertas Creek 76.
Lazarus, J. 44.
Leadville Limestone, CO 13.
Lechuguilla Cave 39.
LeFevre, W. J. 76.
Leiphart, D. 53.
Lerner, A. J. 45.
Li, S. 39.
Lin, K. 77.
Lisenbee, A. L. 44.
Little Florida Mountains 66.
Little Gap 68.
Little Hatchet Mountains 48.
Lobato basalts 48.
Logan, S. E. 77.
Lomas Negras alluvium 49.
Lone Tree complex, NV 80.
Los Duranes formation 49.
Los Padillas alluvium 49.
Los Pinos 75.
Love, D. W. 47, 49.
Lucas, S. G. 40, 44–47, 51, 52.
Lueth, K. 65.
Lueth, V. W. 11, 17.
Luizer, F. G. 89–100.
Lundberg, S. A. W. 77.

M

Mack, G. H. 40.
Madera Formation 40.

- Madera Limestone 76.
Magdalena Group 40.
magnesian skarn system 12.
Mahoney mine 69.
Manzanita Mountains 45, 83.
Manzanita pluton 83.
Manzano Mountains 53, 57–63, 75.
Marcoline, J. R. 57–63.
Marjum Formation, UT 84.
Marquette Iron Range 13.
Martens, T. 52.
Martin, J. 54, 55.
Mattson, E. D. 77.
Maxson crater 38.
Maxwell, C. H. 72–74.
McCraw, D. 85.
McIntosh, W. C. 38.
McKee, C. 37.
McKinley mine 25.
McLemore, V. T. 12, 18–22, 37, 66–71, 108–112.
McLin, S. G. 41, 50.
Melis, E. A. 43.
melt inclusion 38.
Menaul formation 49.
Menefee Formation 25.
Menking, K. M. 53.
Menominee Iron Range 13.
Mesaverde Formation 75.
metamorphism 85.
microthermometry 77.
Midland Basin, TX 79.
Mimbres Indians 19, 67.
Mimbres River 20.
mine waste 78.
mineral collecting 13, 17.
mineral color 16.
mineral deposits 78, 80.
Mineral Farm mine, CO 14.
mining districts
 Hanover–Fierro 11.
 Victorio 12.
 Willow Creek 14.
mining industry 8.
Miocene 50, 84.
Mississippian 11.
Mitchell, D. K. 83.
Modreski, P. J. 10.
Monte Largo Canyon 61.
Monte Largo shear zone 58.
Montosa fault 75.
Montoya Formation 12.
Montoya Pasture 85.
Moore, J. D. 48.
Mora/Canadian confluence 38.
Morgan, G. S. 47.
Mozley, P. 49.
Mt. Taylor volcanics 37.
Muddy Creek Formation, NV 84.
Munroe, E. A. 78.
- N**
Nacimiento Formation 46.
- Neil R. Bearce 17.
Neogene 75.
Neville, P. R. H. 53.
New Mexico Science and Engineering Fair 64–65.
Nolen, B. 54, 55.
North, Robert M. 11.
northeast New Mexico 37.
nuclear waste disposal 14.
- O**
Oak Creek Tuff 68.
Ocate volcanic field 38.
oil and gas 39, 47, 80, 101–107.
Olig. S. 39.
Oligocene 43.
Olmstead, G. A. 1–7.
Olmsted, B. 38.
Olsen, A. 64.
Ordovician 11, 12.
Ortiz, R. M. 41.
Oscura Mountains 40.
Oswaldo Formation 11.
Otahal, J. M. 50.
oxides 14.
- P**
Paiute Ridge, NV 85.
Pajarito Plateau 42, 50.
paleontology 1–7, 44–47, 51–53, 81, 89–100, 113–117.
Palomas Basin 82.
Panaca Formation, NV 84.
Paprocki, L. T. 78.
Pearson, R. A. 53, 78.
Pecos Copper Company 14.
Pederson, J. L. 84.
Pennsylvanian 11, 39, 40, 44, 51, 81.
peridot 14.
peridotite 37.
Permian 39, 40, 45, 51.
Permian Capitan reef complex 39.
Perra Peak 85.
Pershing, John J., General 18.
Peterson Quarry 51.
Peterson, Rodney E. 51.
Peterson, Ronald E. 51.
Petrified Forest Formation 46, 52.
petrography 47.
phosphates 14.
Pleistocene 14, 53.
Pliocene 84.
Plio–Pleistocene 39, 82.
Pollock, S. L. 81.
Potrillo volcanic field 75.
pozzolan 25.
Precambrian 37.
Priest pluton 58.
Proterozoic 37, 83.
Puerto del Venado Alazán 85.
Puye Formation 42.
pyrite 76, 77.
- Q**
quadrangles
 Canador Peak 82.
 Duncan 82.
 Portal quadrangle, AZ 1.
 Rosilla Peak 43.
 Rustler Park quadrangle, AZ 1.
quartz xenocrysts 38.
Quaternary 41, 84.
- R**
Ralsler, S. 53, 57–63.
Ramó, O. T. 37.
Ratcliff, C. D. 44.
Ratté, J. C. 48.
Read, A. S. 42.
Red River 50.
Red Tanks Formation 40.
Reddick Canyon
 Conglomerate 81.
Redrock granite 37.
Regis, A. J. 16.
Regis, K. A. 16.
Repenning, C. A. 89–100.
Rewis, A. 54.
rhyolite 37, 38.
Rincon fault 39.
Rio Calaveras 41.
Rio Cebolla drainage basin 41.
Rio Grande corridor 39.
Rio Grande rift 20, 39, 48, 49, 58, 75, 82, 85.
Rio Puerco 51.
Rio Salado watershed, Mexico 80.
Rivera, M. A. 81.
Roberts, D. E. 39.
Robledo Mountains 40, 51.
Rock Point Formation 46.
Rocky Mountains 85.
Rodriguez-Marin, G. 50.
Rogers, K. L. 89–100.
Rosemeyer, T. 13.
Rowland, J. M. 45, 52.
- S**
Sacramento Mountains 40, 81.
Saleta, C. J. 79.
San Andres Mountains 40.
San Antonio Mountain (SAM) Cave 89–100.
San Diego Mountain 39.
San Juan Basin 46.
San Juan Mountains, CO 13.
San Luis Valley 89.
San Marcos watershed 43.
Sandia fault 39.
Sandia Mountains 76.
Sangre de Cristo Mountains 37, 40, 41, 43, 44.
Santa Fe embayment 42–44.
Santa Fe Group 42, 43, 50.
Santa Fe region 42–44.
Santa Fe River 44.
Santa Rita mine 67.
- Sapillo Basin 82.
Schelble, R. T. 39.
Schneider, J. W. 52.
Scholle, P. A. 8–9.
Sealey, P. L. 46, 47, 51.
Second Sand Member 78.
sedimentation 43, 79, 81, 82, 84.
seismology 39, 77, 78.
 3-D seismic data 53.
Selverstone, J. 37.
Servilleta Basalt 89.
Seven Rivers Formation 47.
Sevilleta Metarhyolite 58.
Shafike, N. G. 53.
Sierra de los Valles 50.
Sierra Nacimiento 40.
silicates 14.
Silurian 12.
Silva, W. 39.
silver 16.
Silver Cave mine 69.
Silverman, T. S. 79.
skarns 11.
Smith, G. A. 43.
Smith, S. V. 82.
Snider, A. C. 84.
Snow, M. G. 38.
Snyder Quarry 46, 52.
SO₂ 27.
Socorro Basin 47, 49.
Socorro Seismic Anomaly 77.
soils 41, 49, 50, 53, 65, 77.
sonic well-log velocity studies 37.
Spar mine 68.
spherulites 69.
Spider Cave 39.
Spilde, M. N. 39.
Spraberry Formation, TX 79.
Spring Canyon 66.
Starvation Draw Member 68.
State Parks
 Manzano Mtns. 108–112.
 Pancho Villa 18–22.
 Rockhound 66–71.
Stewart Lake 41.
Stone, W. J. 42, 86.
Straight Cliffs Formation, UT 81.
strain analysis 48.
stratigraphy 40, 43, 49, 51, 53, 78, 79, 81, 82, 84, 89–100.
Strickland, D. 37.
Summers, W. K. 86.
surface water 80, 83.
Syed, K. H. 53.
- T**
Table Mesa Basin, NV 84.
Teapot Dome, WY 75.
tectonics 37, 42–43, 83, 85.
Tererro mine 14.
Tertiary 50.
Tesuque Formation 42, 43, 44.
Thomas, P. 39.
- Thompson, J. 12.
thundereggs 69.
Tidwell, V. C. 79.
Timmons, J. M. 83.
tonalite 37.
Treaty of Guadalupe Hidalgo 19.
Tres Hermanas Mountains 20, 21.
Treviño, L., Jr. 82.
Trigo Canyon 58.
Tschicoma Formation 42.
Tucumcari Basin 39, 47.
Tularosa Basin 75.
Turzi, U. J. 12.
- U**
U.S. Air Force Academy 12.
Unkar Group 83.
Upper Peninsula, MI 13.
- V**
vadose zone 78.
Valdez fault 48.
vapor diffusion 79.
Vaughn Basin 39.
Victorio Mountains 12.
Villa Hill 20.
volcanology 25, 38, 85.
- W**
Wahweap Formation, UT 81.
Wawrzyniec, T. F. 85.
Welch, D. 80.
West Fork Gila River 48.
Wheeler, D. B. 14.
Wheeler, D. G. 14.
Wheeler, G. J. 82.
Whiterock quartzite 58.
Wild Cow Formation 45, 52.
Wilde, G. L. 40, 45.
Willet Raney Willis micromineral collection 12.
Williamson, T. E. 46.
Winick, J. A. 38.
Winsor Creek drainage basin 41.
Wise, J. S. 80.
Wisniewski, P. A. 85.
Wong, I. 39.
Wright, D. 39.
- Y**
Yeso Formation 40.
Young, C. M. 80.
Young, K. 1–7.
- Z**
Zeigler, K. E. 46, 51.
zeolites 26.
Zuni Mountains 37.
Zuni–Bandera basaltic fields 37.