

Talks Given by S. Parker Gay, Jr., 1960-2004

	Place	Date	Title
1	2nd Peruvian Geological Congress, Lima, Peru	Nov. 17, 1960	Origin, distribution and movement of eolian sands in the area of Yauca to Palpa, Peru
2	Lima, Peru, Section of AIME (Invited)	Nov. 21, 1962	Geophysics in Mineral Exploration
3	Utah Geophysical Society, Salt Lake City, UT (Invited)	May 27, 1965	Mining Geophysics - Past and Present
4	Annual Meeting, Society of Exploration, Geophysicists, Denver, CO	Oct. 1, 1968	Morphological Study of Geophysical Maps by Viewing in Three-Dimensions
5	Scintrex Ltd. Mining Geophysical Symposium, Salt Lake City, UT	1968-1969	Topics in mining geophysics (no record)
6	Scintrex Ltd. Mining Geophysical Symposium, Salt Lake City, UT	1968-1969	Topics in mining geophysics (no record)
7	Scintrex Ltd Mining Geophysical Symposium, Salt Lake City, UT	1968-1969	Topics in mining geophysics (no record)
8	Intermountain Association of Geologists, Salt Lake City, UT	Jan. 6, 1969	“Stereo Contour Maps - A New Tool for the Geologic Interpretation of Geophysical Data”
9	Canadian Mining Geophysicists (KEGS), Toronto, Ontario	Feb. 25, 1969	Stereo Viewing of Geophysical Maps
10	Pacific Northwest Mineral Conference, Spokane, WA	April 19, 1969	“
11	SE Utah Section, AIME, Moab, UT (Invited)	May 13, 1969	“
12	Rocky Mountain Association of Geologists, Denver, CO	May 23, 1969	“
13	SME Fall Meeting, AIME, Salt Lake City, UT	Sept. 18, 1969	Regional Aeromagnetic & Gravity Linears - Are They Significant in Mineral Exploration?
14	AIME Annual Meeting, Denver, CO	Feb. 16, 1970	Some Applications of Geophysics to Groundwater Exploration

15	Utah Section of American Congress of Surveying and Mapping, Salt Lake City, UT (Invited)	Nov. 6, 1970	Airborne Geophysical Surveys
16	Utah Geological Association - Luncheon Meeting, Salt Lake City, UT	1971(?)	Locating Ground Water Beneath Quarternary Basalts in Idaho with the Gravity Meter
17	European Association of Exploration Geophysicists, Hanover, Germany	June 11, 1971	The use of stereo contour maps in the interpretation of aeromagnetic and gravity data
18	Colorado Mining Association, Denver, CO (Invited)	Feb. 4, 1972	Aeromagnetic Signatures of Mineralized Porphyries
19	Univ. of Utah, Salt Lake City, UT	Feb. 1, 1973	The New Basement Tectonics
20	AAPG Rocky Mountain Section Meeting, Salt Lake City, UT	Mar 1, 1973	Petroleum Exploration and the New Basement Tectonics
21	SEG Annual Meeting, Mexico City, Mexico	Oct. 25, 1973	Stereo Contour Map Interpretation and the New Basement Tectonics
22	U of Arizona Geol. Dept. , Tucson, AZ (Invited)	Nov. 29, 1973	Aeromagnetics and the New Basement Tectonics
23	West Texas Geological Survey, Midland, TX (Invited)	Dec. 11, 1973	The New Basement Tectonics and Its Coming Role in Petroleum Exploration
24	Talk to 5 Scientists from USSR- AGI offices, Salt Lake City, UT (Invited)	Jan. 22, 1974	Aeromagnetics and the New Basement Tectonics
25	1st Basement Tectonics Conference, Salt Lake City, UT	June 4, 1974	Aeromagnetic Lineament Study of Covered Precambrian Basement, Southeast Missouri
26	Utah Association of Petroleum & Mining Landmen, Salt Lake City, UT (Invited)	January, 1975	Environmentalism and National Security (Approx.)
27	SEG - CSEG Joint Meeting, Calgary	May 22, 1975	Stereo Contour Map Interpretation and "The New Basement Tectonics"
28	USGS - Reston, VA	March 1976	Aeromagnetics and the New Basement Tectonics

29	2nd International Basement Tectonics Conference, Newark, DE	July 14, 1976	Pervasive Orthogonal Fracturing in Earth's Continental Crust: Review and Update
30	Salt Lake City Geologic Discussion Group	Nov. 15, 1976	The New Basement Tectonics - Implications to Geology
31	University of Hawaii, Honolulu	Jan. 26, 1977	"Application of the concepts of the New Basement Tectonics in Petroleum and Mineral Exploration" <u>or</u> "Demonstration of Three-Dimensional Stereo Contour Maps of Geophysical and Geological Data"
32	Geological Survey of Japan, Tokyo	Jan. 28, 1977	"
33	Geological Survey of India, Calcutta	Feb. 3, 1977	"
34	Osmania University, Hyderabad, India	Feb. 5, 1977	"
35	Ain Shams University, Cairo, Egypt	Feb. 9, 1977	"
36	Geological Survey of Iran, Tehran	Feb. 15, 1977	"
37	Institute for Petroleum Research and Geophysics, Tel Aviv, Israel	Feb. 21, 1977	"
38	Turkish Mineral Institute, Ankara	Feb. 24, 1977	" (3 lectures)
39	Czechoslovak Academy of Sciences, Brno	March 1, 1977	"
40	French Petroleum Institute, Paris	March 14, 1977	"
41	Geographic Institute of Spain, Madrid	March 16, 1977	"
42	Australian Society of Exploration Geophysicists, Perth	Jan. 18, 1978	Pervasive Orthogonal Fracturing in Earth's Continental Crust
43	Australian Society of Exploration Geophysicists, Perth	Jan. 19, 1978	The Use of Stereo Pairs of Aeromagnetic Maps in Mineral Exploration
44	Australian Society of Exploration Geophysicists, Sydney	Jan. 23, 1978	Pervasive Orthogonal Fracturing in Earth's Continental Crust

45	Annual AIME Meeting, Denver	March 1, 1978	The Benefits of Light-to-Moderate Weight Gamma Ray Spectrometer Systems in Radiometric Surveying for Uranium
46	Institute of Graphic Communication, 2nd Conf. on 3D Display Techniques, Carmel, California	June 2, 1981	Presentation on 3D Stereo Contour Maps
47	Arizona Energy Resource Association, Phoenix (Invited)	Jan. 26, 1982	Basement Fracture Mapping - a New Tool for Oil and Gas Exploration
48	5th International Basement Tectonics Conference, Cairo, Egypt	Oct. 16, 1983	Basement Control of Faulting, Structure and Lithology of Petroleum Bearing Rocks in the Midcontinent, USA
49	DOE - Morgantown Energy Technology Center (Invited)	Dec. 2, 1983	Basement Control of Lineaments, Faulting, Structure & Lithology of Petroleum Bearing Rocks in the Midcontinent, USA
50	Kansas Geol. Society Geophysics Short Course, Wichita, KS (Invited)	Dec. 6, 1983	Aeromagnetic Mapping
51	Oklahoma City Geological Society	Jan. 26, 1984	Basement Topographic Control of Structural Highs and Lows in the Sedimentary Section - Southeast Kansas/Northeast Oklahoma
52	Tulsa Geological Society, Oklahoma	March 27, 1984	Basement Topographic Control of Structural Highs and Lows in the Sedimentary Section - Southeast Kansas/Northeast Oklahoma
53	RMAG, Denver, CO	Mar. 30 1984	Basement Topographic Control of Structural Highs and Lows in the Sedimentary Section in the Midcontinent
54	West Texas Geological Society, Midland	April 1984	Basement Topographic Control of Structural Highs and Lows in the Sedimentary Section in the Midcontinent
55	Utah Geological Assn. Lunch Meeting, Salt Lake City	May 14, 1984	Basement Topographic Control of Structural Highs and Lows in the Sedimentary Section in the Midcontinent
56	Wyoming Geological Assoc., Casper	June 7, 1984	Basement Topographic Control of Structural Highs and Lows in the Sedimentary Section - Southeast Kansas/Northeast Oklahoma
57	Denver Petrol. Exhibition & Conference (Invited)	Oct. 2, 1984	Contributions of Aeromagnetic Data to Exploration in Mature Oil and Gas Provinces
58	Kansas Geological Survey Symposium on Geoph. in Kansas, Wichita	Nov. 14, 1984	"Graniteville-Type" Proterozoic Igneous Intrusions Mapped in Southeastern Kansas

59	6th International Basement Tectonics Conference, Santa Fe, NM	Sept. 19, 1985	Relative Timing of Tectonic Events in Newly Recognized Precambrian Terranes in South-Central Kansas, USA, as Determined by Residual Aeromagnetic data
60	Geological Society of Peru, Lima, Peru (Invited)	July 22, 1987	Basement Control of Oil and Gas Traps, with Field Examples
61	Potential Fields Group, Geoph. Society of Houston	Nov. 11, 1987	Basement Mapping Using Aeromagnetic Data: Cure for the Slump in Application of Potential Field Techniques to Oil & Gas Exploration
62	GSA, South Central Section Mtg., Lawrence, KS (Invited)	March 14, 1988	Relative Timing of Tectonic Events in Newly Recognized PC Terranes in Southcentral Kansas, As Determined by Residual Aeromagnetic Data
63	Center for Potential Field Studies, Golden, CO (Invited)	April 26, 1988	Field Examples from Utah, Wyoming, and Nebraska of Two Causes of Non-Controversial Intrasedimentary Magnetic Anomalies: Detrital Magnetite and Coal Burns
64	Dallas Society of Potential Field Geophysicists	June 21, 1988	Basement Mapping Using Aeromagnetic Data: Cure for the Present Slump in Application of Potential Field Techniques to Oil & Gas Exploration
65	Denver Geological Study Group (Invited)	Feb. 14, 1989	Gravitational Compaction, A neglected Mechanism in Structural and Stratigraphic Studies - New Evidence from the Midcontinent"
66	Symposium on Energy and Mineral Potential of the Central American - Caribbean Region, San Juan, Costa Rica	March 7, 1989	A Contribution to Structural Mapping of the Faulted Foldbelt of Southern Belize from Detailed Residual Aeromagnetic Data
67	Denver International Petroleum Society	May 3, 1989	The South Peten Basin in Guatemala and Belize - A Plum Ripe For The Picking
68	Kansas Geological Society, Wichita, KS (Invited)	May 12, 1989	Aeromagnetism and Its Relationship to Oil Production in Southern Kansas
69	9th International Basement Tectonics Symposium, Canberra, Australia	July 2, 1990	Basement Control of Oil and Gas Traps: More Common Than We Thought?
70	Oklahoma Geol. Survey- Petroleum Reservoir Geology in the Southern Midcontinent (Invited)	March 26, 1991	Determination of Strike-Slip Movement on Some Wichita System Faults with Residual Aeromagnetic Maps: Relevance to Fractured Reservoir Studies
71	Appalachian Geol. Soc. Coalbed Methane Resource Assessment Seminar, Clarksburg, WV (Invited)	April 2, 1991	Basement Faults (Shear Zones) underneath Sedimentary Basins: Their Localization with Residual Aeromagnetic Techniques and their control on Faulting and Fracturing within the sedimentary Section

72	AAPG Mid-Continent Section Meeting, Wichita, KS	Sept. 24, 1991	Basement Influence on the Structural Geology of Southern Oklahoma Inferred from Residual Aeromagnetic Maps
73	GeoOne/First Seismic Symposium, Dallas, TX (Invited)	Sept. 25, 1991	Magnetic Overview of the Ouachita Overthrust System
74	Cambro-Ordovician "Knox" of Miss. and Ala. Seminar, Jackson, MS Miss. Geol. Survey (Invited)	Nov. 25, 1991	Utility of High Resolution Residual Aeromagnetics in the Structural Interpretation of the Ouachita Trend of Southeast Oklahoma, Central Arkansas and Northern Mississippi
75	Canyonlands Field Institute, Moab, UT	May 9, 1992	Origin of Upheaval Dome
76	10th International Basement Tectonics Conference, Duluth, MN	Aug. 4, 1992	Basement Control within the Sedimentary Section as Determined from Subsurface Mapping and Residual Aeromagnetic Data
77	Pittsburgh Assn. of Petroleum Geologists, Pittsburgh, PA	Oct. 8, 1992	The Use of Basement Concepts and NewMag Basement Mapping in Oil and Gas Exploration, with Particular Reference to the Appalachian Basin
78	Reservoir Description Workshop: Application of Underutilized Technology, sponsored by U. of Kansas, Wichita (Invited)	Feb. 17, 1993	The Role of Basement Fracture Mapping with Aeromagnetics in Petroleum Reservoir Characterization Studies
79	AAPG Hedberg Research Conference, Ann Arbor, MI (Invited)	Nov. 12, 1993	New Structural Information on the Rome Trough in West Virginia Deduced from Detailed Aeromagnetic Surveying
80	Ohio Geological Society, Columbus (Invited)	Jan. 17, 1994	The Use of Basement Geological Concepts and New Basement Mapping in Oil and Gas Exploration with Particular Reference to Ohio and the Appalachian Basin
81	AAPG Annual Meeting, Denver, CO	July 1994	Basement Control of Oil and Gas Traps: More Common Than We Thought?
82	11th International Basement Tectonics Conference, Potsdam, Germany	July 28, 1994	Mapping Precambrian Plate Boundaries on the Cratons with Residual Aeromagnetic Maps
83	Appalachian Geological Society, Charleston, WV (Invited)	Oct. 4, 1994	The Use of Basement Geological Concepts and New Basement Mapping in Oil and Gas Exploration with Particular Reference to the Appalachian Basin

84	Symposium on Ames Hole Structure and Similar Features, Oklahoma Geological Survey, Norman, OK	March 29, 1995	“Haswell Hole” - A Previously Unknown Impact Structure in Southeast Colorado
85	AAPG Sixth Annual Archie Conference, Houston, TX	May 18, 1995	The Power of 3D Stereo Contour Mapping (Poster)
86	AAPG, Rocky Mountain Section Meeting, Reno, NV (Invited)	July 19, 1995	Basement Control of Oil and Gas Traps: More Common Than We Thought?
87	HyperEdge Expert Association, Houston, TX (Invited)	Aug. 11, 1995	“The Basement Fault Block Pattern: It’s Importance in Petroleum Exploration, and Its Delineation with Residual Aeromagnetic Techniques”
88	GSA Annual Meeting, New Orleans, LA	Nov. 7, 1995	Gravitational Compaction: An Important Structure-Forming Mechanism
89	Ohio Chapter of Soc. of Prof. Well Log Analysts, Canton, OH (Invited)	March 1996	The Basement Fault Block Pattern: Its Importance in Petroleum Exploration, and Its Delineation with Residual Aeromagnetic Techniques
90	Annual AAPG Meeting, San Diego, CA	May 20, 1996	The Power of 3D Stereo Contour Mapping (Poster)
91	AAPG Annual Meeting, San Diego, CA (Invited)	May 20, 1996	“Haswell Hole” - A Previously Unknown Impact Structure in Southeast Colorado
92	AAPG Rocky Mtn. Section Meeting Billings, MT (Invited)	July 29, 1996	Basement Control of Oil and Gas Traps: More Common Than We Thought? (Presented for S. P. Gay by Bronson Hawley)
93	COPENA Conference, Goose Bay, Labrador, Canada	August 2, 1996	The Configuration of the Buried Southern Extension of the Grenville Province in the United States as Deduced from Aeromagnetic Data (How Else?)
94	Paradox Basin Symposium, Durango, CO	Sept. 20, 1996	Upheaval Dome, Southeast Utah: The Evidence Ignored by both sides
95	Society of Exploration Geophysicists, Annual Meeting, Denver, CO	Nov. 12, 1996	“Haswell Hole” - A Previously Unknown Impact Structure in Southeast Colorado
96	13th International Basement Tectonics Conference, Blacksburg, VA	June 5, 1997	The Configuration of the Buried Southern Extension of the Grenville Province in the United States as deduced from Aeromagnetic Data
97	AAPG Rocky Mtn. Section Meeting, Denver, CO	Aug. 25, 1997	The Powder River Basin - A Classic Area of Basement Control on Oil & Gas Fields, Including a Number of “Purely Stratigraphic Traps”

98	CSEG/HRAM Forum, Calgary, Canada (Invited)	Nov. 18, 1997	Basement Control of Oil & Gas Traps - More Common Than We Thought?
99	Denver Geophysical Society Meeting, Denver, CO	Jan, 8, 1998	The Powder River Basin - A Classic Area of Basement Control on Oil & Gas Fields, Including a Number of "Purely Stratigraphic Traps"
100	Wyoming Geological Association, Casper, WY	April 3, 1998	The Powder River Basin - A Classic Area of Basement Control on Oil & Gas Fields, Including a Number of "Purely Stratigraphic Traps"
101	COPENA Conference, Bozeman, MT	July 22, 1998	Major Crustal Studies Defined by Aeromagnetics in the Powder River Basin, Wyoming, Indicate the Manner of Assembly of the Archean Wyoming Province
102	PTTC Meeting, Morgantown, WV (Invited)	May 18, 1999	Basement Control of Structure and Stratigraphy in the Rockies: Are there Analogs in Appalachia?
103	SIPES Conference, Wichita, KS (Invited)	May 19, 1999	Basement Control of Structure and Stratigraphy in the Rockies: Is it Pertinent to the Midcontinent?
104	AAPG Midcontinent Meeting, Wichita, KS	Aug. 30, 1999	The Strike-Slip, Compressional Thrust-Fold Nature of the Nemaha System in Eastern Kansas and Oklahoma
105	Geological Society of America, Annual Meeting, Denver, CO	Oct. 28, 1999	15-Year Study in 21 U.S. Sedimentary Basins Shows the Majority of Faults Are Reactivated Basement Shear Zones
106	Oklahoma City Geological Society (Invited)	Jan. 11, 2000	The Strike-Slip, Compressional Thrust-Fold Nature of the Nemaha Ridge in Eastern Kansas and Oklahoma
107	Houston Potential Fields Society	Jan. 20, 2000	The Basement Fault Block Pattern: Its Importance in Petroleum Exploration, and Its Delineation with Residual Aeromagnetic Techniques
108	GSA, Southeast Section Meeting, Charleston, SC	March 23, 2000	Unmapped Topographic Alignments Visible on 3D Stereo Terrain Map of a 2° x 2° Segment of the Southern Appalachians (Poster)
109	Geol. Dept., University of West Virginia, Morgantown (Invited)	Oct. 25, 2000	Basement Control of Structure and Stratigraphy in the Rockies: Are there analogs in Appalachia?
110	15th International Basement Tectonics Conference, La Coruña, Spain	July 5, 2001	Unrecognized Topographic Alignments (Thrust or Shears?) in Northwest Iberia - A 3D Stereo Terrain Study (Poster)
111	WGA Luncheon Meeting, Casper, WY	March 9, 2001	Anticlines in Wyoming: A Demonstration of Reactivation of Pre-existing Basement Faults
112	PTTC Meeting, Morgantown, WV WV Geol. Survey (Invited)	May 1, 2001	Basement Fault Control on Black River-Trenton Oil and Gas Production in Michigan, New York, and West Virginia

113	PTTC Meeting, Morgantown, WV (Invited)	Aug. 7, 2001	Same as above
114	CTOD International Workshop, NASA Space Center, Greenbelt, MD (Invited)	Sept. 17, 2001	The Use of Regional, but Detailed, Aeromagnetic Data to Define the Fault Pattern in Precambrian Basement, the Plumbing System for Mineral Concentration in the Lithosphere
115	Annual GSA Meeting, Boston, MA (Invited)	Nov. 5, 2001	Aeromagnetic Techniques for Mapping Basement Structure - Advantages and Disadvantages of 6 Different Types of Data Displays
116	16th Int'l Basement Tectonics Conference, Rolla, MO	May 20, 2002	Jointing, Linears, & Lineaments - the Basement Connection
117	Conference on Naturally Fractured Reservoirs, Oklahoma Geol. Survey	June 3, 2002	The Origin of Natural Fracturing
118	Annual SEG Meeting Salt Lake City, UT	Oct. 10, 2002	Glacial Till - a Troublesome Source of Near-Surface Magnetic Anomalies
119	Annual GSA Meeting Denver, CO	Oct. 27, 2002	Some Important Consequences of Reactivation Tectonics: New Geological Principles Discovered
120	17th Basement Tectonics Conf., Oakridge, TN	July 1, 2004	Old and New Advances in Basement Reactivation Tectonics

Plus several talks at University of Utah (Invited by Dr. Ken Cook) and at Universidad de San Marcos (Invited by Dr. Alejandro Alberca Z.)

**Talks for which S. P. Gay was a contributor and co-author,
but did not present talk**

	Place	Date	Title
1.	Mid. Cont. Sect. Mtg., AAPG, Wichita, KS	Sept. 23, 1991	Basement influence on the structural geology of S. Oklahoma inferred from residual aeromagnetic maps, T. L. Thompson. S. P. Gay, B. Hawley, & J. R. Howe.
2.	Post-convention Workshop SEG Annual Mtg., Houston, TX	Nov. 15, 1991	Integrating seismic & aeromagnetic profile data on a Workstation, H. R. Nelson, Jr. & S. P. Gay.
3.	Okla. Geol. Survey Workshop on Structural Styles in the S. Midcontinent, Norman, OK	March 31, 1992	Basement influence on the structural geology of S. Oklahoma inferred from residual aeromagnetic maps, T. L. Thompson, S. P. Gay, B. Hawley, & J. R. Howe.
4.	Rocky Mtn. Sect. Mtg., AAPG, Casper, WY	Sept. 15, 1992	Cretaceous paleofaults on basement block boundaries near Hartzog Draw Field, Wyoming, G. H. Shurr and S. P. Gay, Jr.
5.	Eastern Sect. Mtg., AAPG, Champaign, IL	Sept. 21, 1992	Aeromagnetic confirmation of geologic structure in the Rough Creek Graben region, W. Kentucky, J. R. Howe, T. L. Thompson, and S. P. Gay, Jr.
6.	SE Sect. Mtg., GSA, Knoxville, TN	April 17, 1995	Basement Faults in the Black Warrior foreland basin, W. A. Thomas and S. P. Gay, Jr.
7.	12th Int'l. Basement Tectonics Conference, Norman, OK	May 26, 1995	Late Precambrian strike-slip fault system of the Wichita-Amarillo Mountains as delineated by detailed aeromagnetic data, B. W. Hawley and S. P. Gay, Jr.
8.	Rocky Mtn. Sect. Mtg., AAPG, Laramie, WY	Sept. 10, 2002	Basement faults and their influence on marine sandstone depositional patterns and hydrocarbon entrapment, Greater Green River Basin, J. C. Horne and S. P. Gay, Jr.
9.	Hydrothermal Dolomite Symposium, RMAG-SEG Student Chapter at Colorado School of Mines	Nov. 15, 2004	Aeromagnetic definition of potential hydrothermal dolomite reservoir trends, R. F. Inden, W. C. Pearson, and S. P. Gay.