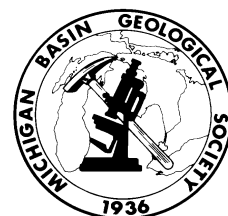




ON THE ROCKS

A Newsletter of the Michigan Basin Geological Society



2016-2017 Edition 5

www.mbgs.org

January 2017

MBGS MEMBERSHIP MEETING

The January meeting will be a joint MBGS-SPE member meeting held on January 11th, 2017 at Michigan State University, Natural Science building at 7:00 pm in Room 116. Douglas Elenbaas, El Energy Consultants LLC, will be presenting "Michigan's Natural Gas Story, Origin, 80 Year History, and Future Potential". Additional information is included in the newsletter.

MBGS MONTHLY MEETINGS

February 8, 2017: MBGS Membership Meeting, speaker Colin Plank, AECOM, presenting "The importance of detailed site stratigraphy in understanding site contaminant transport and storage". Meeting to be held on the campus of Michigan State University.

March 8, 2017: MBGS Membership Meeting, speaker Chad Kotke, DEQ - WRD, presenting "Stamp Sands in Michigan". Meeting to be held at Western Michigan University in the Michigan Geological Repository for Research and Education Building, Kalamazoo, Michigan. A BBQ style dinner will be available for members. Cost: \$25 members; \$10 students. Social hour - 5:00PM, dinner - 5:30PM, presentation - 7:00PM.

March 23, 2017: MI-SPE and MBGS will host a Joint Membership Meeting, the speaker is Michael Gillen presenting "Applications and Advantages of Logging-While-Drilling in High Angle and Horizontal Wells".

LED FIELD LENS AND MBGS LANYARD AVAILABLE

The Michigan Basin Geological Society is offering to its members and non- members this geological field hand lens and lanyard (photo attached). The field hand lens is a large 21mm lens with a 20X magnification. A pair of white LEDs provides illumination for all those darkened close-up viewing of rocks, minerals and fossils. A case is provided for the field lens with a key to remove the batteries. Batteries are included. The green lanyard has MICHIGAN BASIN GEOLOGICAL SOCIETY printed on one side of the unfussy 1" wide webbing. This lanyard is designed with a breakaway buckle clip and detachable keychain for versatile use and comfortable wearing. MBGS is offering the Lanyard/LED Hand Lens and Case combo for \$15 each and the Lanyard alone for \$5 each if picked up at a meeting or field trip. If you request to have your purchase mailed, standard costs for mailing container and postage will apply. Please contact Mark Wollensak at wollensak@voyager.net to order.



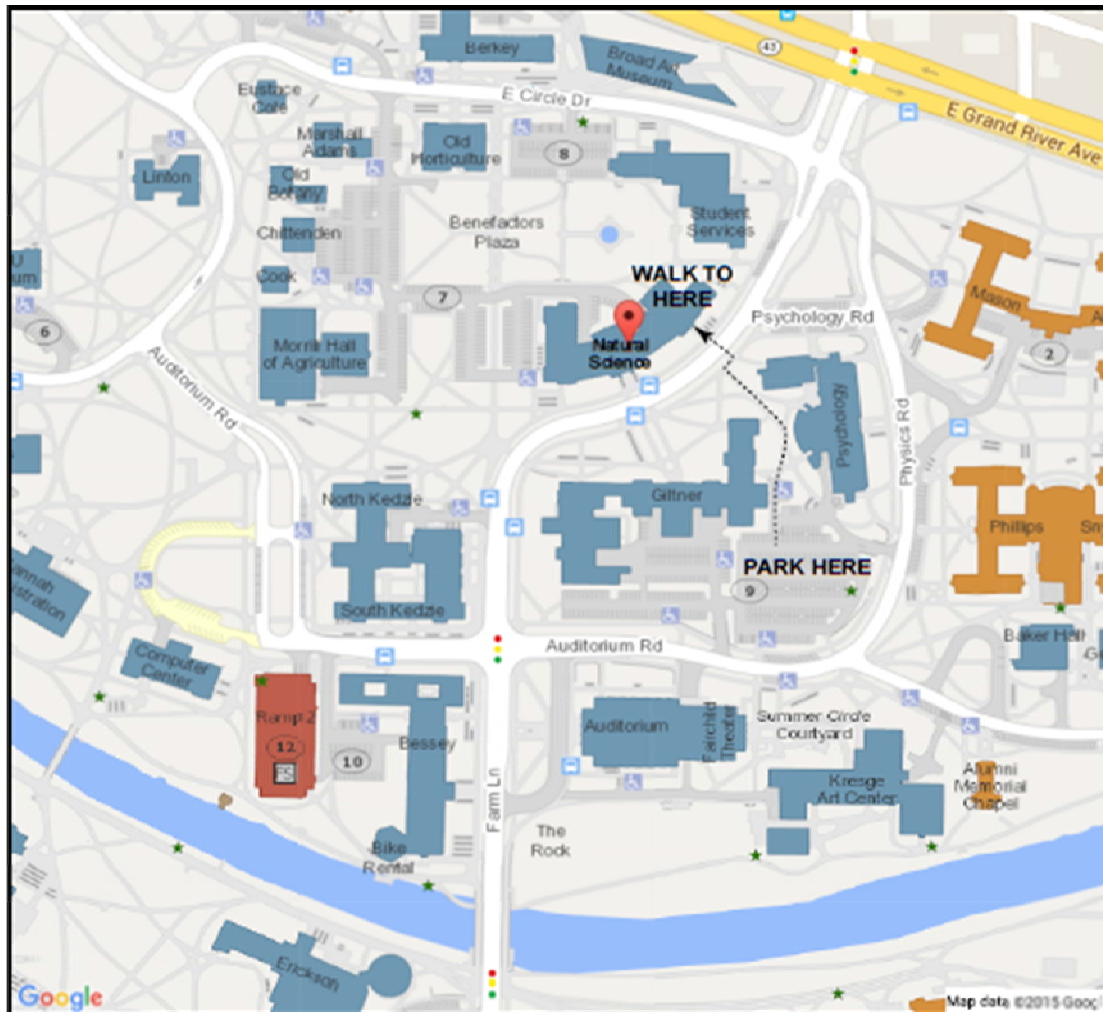


Michigan Basin Geological Society Society of Petroleum Engineers January 2017 Membership Meeting



When: Wednesday, January 11th, 2017
Location: Michigan State University, Natural Science Building, Room 116
When: 7:00 PM
Topic: Michigan's Natural Gas Story, Origin, 80 Year History, and Future Potential
Presenter: Douglas Elenbaas, El Energy Consultants LLC
Costs: No charge for this meeting for members

Executive Committee Meeting: 4:30 PM at Claddagh Irish Pub, Lansing. Members are welcome to attend.



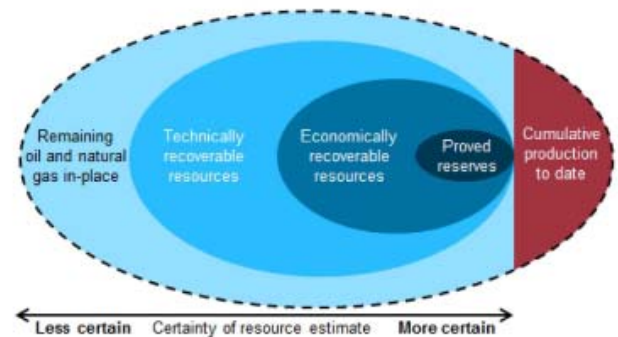
Between 5pm & 6pm you can park in Lot 9 behind Giltner Hall and the Psychology Building (former Physics and Astronomy building) for free. Otherwise you can try your luck with the metered slots clustered around the Natural Science Building and the adjacent Student Services Bldg, no charge after 6.

Michigan's Natural Gas Story Origin, 80 Year History, and Future Potential

Douglas J. Elenbaas, PE

Abstract:

The use of 'city gas' in Michigan originated in the 1850's lighting city streets in Detroit and later in Grand Rapids. Michigan's first reported commercial natural gas well was completed by Taggart Brothers in Mecosta County in 1933 at a depth of 1,380 feet in the Michigan Stray Formation. Total reported Michigan natural gas production is 8.0 Tcf through 2014. This presentation will review the origins of Michigan's oil and natural gas story, changing supplies, production history and potential for the future.



Speaker Biography: Douglas J. Elenbaas PE

Doug's professional career from 1970's through the present has been devoted to the energy industry. Since 1984, the focus has been reservoir engineering in oil and gas production valuation and underground natural gas storage analysis. Doug has served on the Pipeline Research Council International - Underground Gas Storage Research Committee for 10 years, and also served as an officer for the Michigan Section of the Society of Petroleum Engineers from 1987-1993 and was awarded the SPE Mid-Continent Region Service Award in 1994. The Elenbaas family heritage has also worked the energy industry for 110 Years.



UPCOMING EVENTS

January 9, 2017: Western Michigan University Geosciences, Seminar Series, Michigan Natural Resources Production Statistics, Dr. Peter Voice, <https://wmich.edu/geology/events/seminar>

January 11, 2017: MBGS Membership Meeting, speaker Doug Elenbaas, independent consultant, presenting “History of Oil and Gas in Michigan”.

January 23, 2017: Western Michigan University Geosciences, Seminar Series, “Straight Talk on Geoscience Careers: County Drain and Stormwater Management”, Dr. Patricia Crowley, <https://wmich.edu/geology/events/seminar>

February 8, 2017: MBGS Membership Meeting, speaker Colin Plank, AECOM, presenting “The importance of detailed site stratigraphy in understanding site contaminant transport and storage”.

March 8, 2017: MBGS Membership BBQ Meeting, speaker Chad Kotke, DEQ - WRD, presenting “Stamp Sands in Michigan”. Meeting will be held at Western Michigan University in the Michigan Geological Repository for Research and Education Building, Kalamazoo, Michigan.

March 23, 2017: MBGS and MI SPE Joint Meeting, the speaker is Michael Gillen presenting “Applications and Advantages of Logging-While-Drilling in High Angle and Horizontal Wells”.

April 13, 2017: MI-AIPG and MBGS Joint Meeting, Kellogg Center, Lansing, Michigan.

May 15, 2017: MI SPE Membership Meeting, the speaker is Frank Blaskovich presenting “Energy Policy: Is it Effective? Is it Fair?”.

June 13-14, 2017: 7th Annual Michigan Section AIPG Technical Workshop, “Environmental Risk Management: Characterization’s Role in Remedy Selection”, RAM Center, Roscommon.



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2016-2017



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Historical CD #1: Nine out-of-print publications from 1949 through 1965 and 1998, 2000, \$15

- The Stratigraphy of Manitoulin Island, Ontario, Canada, June 19-20, 1954
- The Devonian and Silurian Rocks of Parts of Ontario, Canada and Western New York, June 22-23, 1951
- The Traverse Group of the Northern Part of the Southern Peninsula of Michigan, June 16-17, 1949
- The Devonian Strata of the London-Sarnia Area, Southwestern Ontario, Compiled by Erwin C. Stumm, Lewis B. Kellum and Jean Davies Wright, June 9-10, 1956
- The Ordovician Rocks of the Escanaba-Stonington Area, Led by R. C. Hussey, June 2-3, 1950
- The Niagara Escarpment of Peninsular Ontario, Canada, June 18-19, 1955
- Lower Paleozoic and Pleistocene Stratigraphy Across Central Wisconsin, Compiled by C. E. Prouty, Led by L. M. Cline, J. L. Hough and R. F. Black, 1960
- Classic Silurian Reefs of the Chicago Area, by Donald G. Mikulic and Joanne Kluessendorf, June 27, 1998
- Geology of Central Ontario, Canada, 1965

Historical CD #2: Four out-of-print publications from 1947, 1959, 1983 and 1991, 2001, \$15

- Copper Country Field Trip, Michigan, June 20-22, 1947
- Geology of Mackinac Island and Lower and Middle Devonian, South of the Straits of Mackinac, June 12-14, 1959
- Tectonics, Structure and Karst in Northern Lower Michigan, August 1983
- Geology of the Pictured Rocks, Upper Peninsula, Michigan, July 11-13, 1991

Historical CD #3: Six out-of-print publications from 1948, 1952, 1990 - 1995, 2001, \$15

- Pleistocene and Early Paleozoic of the Eastern Part of the Northern Peninsula of Michigan, June 18-21, 1948
- Stratigraphy and Structure of the Devonian Rocks in Southeastern MI and Northwestern OH, June 20-21, 1952
- Lower Ordovician and Upper Cambrian of Wisconsin, May 10-12, 1990
- Guidebook to the Precambrian Geology and Metallogeny of the Central Upper Peninsula of Michigan September 12-13, 1991

Historical CD #4: Six out-of-print publications from 1957, 1958, 1961, 1967, 1968 and 1970, 2004, \$15

- Silurian Rocks of the Northern Peninsula of Michigan, 1957
- Cambrian Geology of Parts of Dickinson and Iron Counties, Michigan, June 1958
- Geologic Features of Parts of Houghton, Keweenaw, Baraga and Ontonagon Counties, Michigan, May 19-21, 1961
- Correlation Problems of the Cambrian and Ordovician Outcrops Areas, Northern Peninsula of Michigan 1967
- The Geology of Manitoulin Island, June 1968
- Devonian Strata of Alpena and Presque Isle Counties, Michigan 1970

Historical CD #5: Five out-of-print publications from 1971, 1989, 2001, and Oil & Gas Fields Vol. 1 & 2, 1969 & 1992, 2006, \$50

- Oil & Gas Fields Symposium, Volume 1, April 1969, 200 pp., maps, illus., second printing with updates
- Oil & Gas Fields Manual of the Michigan Basin, Volume 2, 1992, 520 pp., maps, illus.
- Glacial Geology of Southwestern Michigan, 1989, 53 pp. by A. Kehew, L. J. Schmaltz, and W. T. Straw
- Geology of the Lake Erie Islands and Adjacent Shores, 1971, 65pp., maps, illus. by Jane L. Forsyth
- Glacial Geology of Southwestern Michigan, Landforms of the Lake Michigan Lobe, Southwestern Michigan, 2001, AAPG Eastern Section Meeting Field Trip, 32 pp., maps, illus. by A. Kehew and A. Kozlowski

Historical CD #6: Six out-of-print

publications from 1946, 1953, 1963, 1966, 1978 & 1987 plus the Richfield Challenge, 1952 & Tom Knapp's MS Thesis, 2007 \$15.

- Guidebook for Ordovician Stratigraphy of the Cincinnati, Ohio and Richmond, Indiana Areas, June 12, 13, 1953 by W. H. Shideler and B. T. Sandefur
- Guidebook for Ontario Geological Excursion to Kettle Point – Owen Sound- Waubesa, June 21, 22, 23 1946 by W. A. Roliff, C.S. Evans and J.F. Caley
- Guidebook for the Stratigraphy of the Silurian Rocks in Western Ohio, May 31-June 2, 1963 by C. H. Summerson, Jane L. Forsyth, Karl V. Hoover and J. R. Ulteig
- Guidebook for Cambrian Stratigraphy in Western Wisconsin, May 21, 22, 1966 by Merideth E. Ostrom
- Geology of the Manitoulin Area, Special Papers #3, September 29, 30 and October 1, 1978 by J. T. Sanford
- and R. E. Mosher
- Middle Devonian Cratonic Carbonates and Shales in Southwestern Ontario, November 14, 1987 by Bruce Wilkinson
- The Richfield Challenge, A Review of the Richfield Developments in Michigan, 1952 by Gordon H. Hautan
- A Theory of Rogers City and Dundee Relationships in Central Michigan, Masters Thesis, 1947 by Tom Knapp

Historical CD #7: Field Guidebooks from 1962, 1969, 1977, 1980, 1985 & 1988, \$15

- Silurian Rocks of the Southern Lake Michigan Area, 1962, James H. Fisher, Chairman, MBGS Annual Field Conference
- Studies of the Precambrian of the Michigan Basin, by Harold B. Stonehouse, 1969
- The Geology of the Marquette District: a Field Guide By F. W. Cambray, 1977
- Ordovician and Silurian Geology of the N. Peninsula of Michigan, 1980, R.B. Votaw, 40 pp., illus., maps
- Special Paper #4: Ordovician and Silurian Rocks of the Michigan Basin and its Margins, 1985 K.R. Cercone and J.M. Budai (eds.), 96 pp., illus.
- Upper Keweenaw Rift-Fill Sequence, Mid-Continent Rift System, Michigan, 1988, P.A. Daniels and R.D. Elmore, M.S. Wollensak, ed., 150 pp., illus., maps

OTHER SPECIAL OFFERS

- **Historical CD Set - # 1 – 7 (detailed above) for a special purchase price of \$95**
- **NE Lower Peninsula Geological Field Conf., 2004**, T. Black, M. Wollensak, On CD \$10
- **Stratigraphic Lexicon for Michigan**, 2001, prepared by MBGS and published by DEQ, \$4
- **Robert E. Mosher Geological Studies** A lifetime of geological research on Silurian Rocks with John T. Sanford. The disks are organized chronologically and include field work in North America and Europe. 2007, 2 CDs \$35.

MBGS ONLINE STORE

The Michigan Basin Geological Society now has an on-line store. Shop for shirts, hats, bags and other items at <http://www.cafepress.com/mbgs>.



7th Annual AIPG Michigan Section Workshop

Environmental Risk Management: Characterization's Role in Remedy Selection



Call for Abstracts

The AIPG Michigan Section is calling for abstracts for the 7th Annual AIPG Michigan Workshop to be held June 13 and 14, 2017, at the Ralph A. MacMullan Conference Center on Higgins Lake in Roscommon County, Michigan.

This 7th workshop in the series of annual training events hosted by the AIPG Michigan Section focuses on providing quality technical information and case studies. These environmental workshops bring together a broad base of topic expertise from consulting, regulatory, academic, and owner perspectives. This unique workshop forum promotes collaboration for solving tough environmental problems through real site case studies as valuable technical learning tools to develop strategies for evaluating and managing risks associated with releases of hazardous substances to the environment.

The theme for this year's Environmental Risk Management Workshop is **Characterization's Role in Remedy Selection**. Managing risks from hazardous substances released to the environment requires thoughtful decision making to ensure that human health and the environment are protected. To make well informed decisions, the information and data collected are expected to support the conclusions and selected remedial solutions to manage site contaminant risks.

The AIPG Michigan Section is seeking abstracts for new case studies that highlight the latest tools and innovative methods used to help us characterize sites and collect information that guide our risk management decisions.

The presentations at this workshop will focus on how to identify risk management remedies ranging from aggressive removal to long term exposure maintenance, what are the right questions to ask, and how to collect the data to answer those questions. This workshop will provide the same thought provoking, high quality technical presentations and discussions that have come to be expected of the AIPG Michigan Section's annual workshop. As professionals working in the environmental industry, we make decisions regarding potential and real exposures daily using tools developed from the latest advances in science and technology, statutory requirements and professional experience.



Abstracts Due: January 13, 2017

Selection Notification: February 10, 2017

The program will be developed on the basis of a review of abstracts. One page abstracts are to be submitted as Microsoft Word files, single spaced, and 12 point Arial font. Submit Abstract to: AIPG.MI.Section@gmail.com

Questions? Contact Co-Chairs [Rick Dunkin](#) or [Sara Pearson](#)

Michigan State University - Emeritus Professor Dr. James Harold Fisher dies at 97

James Harold Fisher

November 8, 1919 – December 19, 2016

Professor of Geology, WWII Captain of Infantry (France and Germany) husband, father, and grandfather.

Dr. James Harold Fisher, age 97 passed away in his sleep in DeWitt, Michigan, December 19, 2016, following complications from a stroke.

He was born in Mayfield, Kentucky on November 8, 1919 to Clyde and Lillian Fisher.

He entered R.O.T.C. in 1934 at Lakeview High School, and continued in R.O.T.C. at the University of Illinois, rising to the rank of Cadet Colonel. His name appears on a plaque at the armory in Urbana-Champaign.

He met Anne Brown in working at the library in college and they were married June 5, 1943. He graduated 2 days later.

Upon graduating, he was called to active military duty. He attended O.C. S. and sailed for Europe on the *Ile de France*. In August 1944 he participated as part of the 39th Regiment in the Normandy Invasion landing. Next, he fought in the “Battle of the Hedgerows”, was present at the liberation of Paris, and spent a winter in a fox hole in Germany, in battles through the Hurtgen Forest. These have been named the “worst of all battles” according to many veterans of the Division.

He returned from war, September 1945, and re-entered the University of Illinois, completing a B.S., and M.S. and a Ph.D. in Geology (1949). He subsequently taught Geology at the Universities of Illinois and Nebraska, and Michigan State University. He became a full professor at MSU in 1970, retiring in 1984.

In summers and in retirement he worked as a Geological Consultant to many different oil companies and energy producers. He was very proud of the many students he prepared to enter successful careers in the oil industry.

His hobbies were reading (primarily WWII history), chess, playing the piano, bridge, and listening to a wide variety of classical music and jazz.

He was preceded in death by his first wife, Anne Brown Fisher and his son, James Michael Fisher.

He is survived by his wife, Kit Fisher, son, John Allen and daughter Jeannie Fisher Mallick, son-in-law, Brian Mallick, and granddaughter, Monica Mallick.

He also created an oil and gas game for university petroleum geology classes that was apparently used across the county. Fisher, J.H., 1977, Confusion flats—an exploration game, American Association of Petroleum Geologists Bulletin, v. 61, p. 105-111.

<https://boardgamegeek.com/boardgame/42096/confusion-flats-exploration-game>

