

On the Rocks



A Newsletter of the Michigan Basin Geological Society

2006-2007 Number 9

www.mbgs.org

May 2007

EVENTS

May 4, 2007: Carbonate Reservoir Characterization Workshop and Short Course at the Core Lab Facility at WMU, see info below.

May 5, 2007: The **Detroit Salt Mine trip is FULL** with a waiting list.

May 9, 2007: **MBGS Meeting**, the speaker is **E.Z. Manos** who will discuss some interesting insights about the Detroit Salt Mine. This will be a great follow-up to the field trip on May 5, see information below.

Tentative upcoming field trip:

Baraboo – with Robb Gillespie, Possibly 3rd weekend in Sept. 2007, Friday – Sunday

Elections For 2007-2008 Officers:

Included in the mailing for this newsletter is a separate ballot for electing officers for our 2007-2008 season. While there is only one candidate per office this year, there is an opportunity for write in candidates if someone desires to mount an insurgent write-in campaign. You may return your ballots by e-mail to Thomas Hoane at hoanet@michigan.gov, or by regular mail to the MBGS mailing address, P.O. Box 18074, Lansing, MI 48901-8074. We are excited to see some new faces in next year's officer lineup.

New Venue For May Meeting

Due to the closing of the Coyote Creek, our last meeting of the season will be at the Delhi Café, at 4625 Willoughby Rd, Holt. See the following link for map:

<http://maps.google.com/maps?f=l&hl=en&q=Delhi+Cafe&near=Holt+MI&layer=&ie=UTF8&om=1&z=13&ll=42.658328,-84.533443&spn=0.061353,0.101967>

2006-2007 MBGS Officers

The Executive Committee meeting minutes are available on our website at www.mbgs.org

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616-387-8691 william.harrison_iii@wmich.edu

MEETING CANCELLATION POLICY

Monthly meetings will be automatically cancelled whenever the National Weather Service issues a "Storm Warning" for the Lansing area. If driving conditions are poor but a "Warning" has not been issued please contact any member of the Executive Committee for the status of the meeting.

MICHIGAN BASIN GEOLOGICAL SOCIETY PUBLICATIONS

Historical CD #1: Nine out-of-print publications from 1949 through 1965 and 1998, Devonian to Silurian Rock Fieldtrips to MI, WI, IL and Ontario, 2000, \$15

Historical CD #2: Four out-of-print publications from 1947, 1959, 1983 and 1991, Northern Devonian and UP Fieldtrips in MI, 2001, \$15

Historical CD #3: Six out-of-print publications from 1948, 1952, 1990 - 1995, Northern Devonian and UP Fieldtrips in MI, 2001, \$15

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

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

Special Price - Historical CDs #1, #2, #3, #4, & #5 for \$75

NE Lower Peninsula Geological Field Conference, 2004, T. Black, M. Wollensak, 133 pp., illus., maps. On CD \$10

Stratigraphic Lexicon for Michigan, 2001, prepared by MBGS and published by DEQ, 56 pp., chart, \$2.65 picked up or \$4 mailed, Can be ordered from MBGS or Office of Geological Survey of the DEQ

Price Includes postage, handling and any applicable sales tax. Orders for publications should be prepaid in U.S. Funds and addressed to: MBGS - Publications, P O Box 18074, Lansing MI 48901-8074

MBGS Meeting

May 9, 2007 (Wednesday)

New Venue
Location: Delhi Café
4625 Willoughby Rd, Holt, MI
(517) 694-8655

Schedule

4:30-5:30 – Executive Committee Meeting
5:30 to 6:15 PM – Social Hour
6:15 PM – Dinner
Presentation after Dinner
Cost for Dinner \$25.00 (Students \$15.00)

Topic:

"The Detroit Salt Mine"
by
E. Z. Manos

Members are welcome to attend the presentation after dinner for no charge.
Please contact Thomas Godbold by **May 7, 2007** to ensure adequate seating.
Send reservations to:

Thomas Godbold
P.O. Box 30256
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Ph: Bus Ph: 517-241-1545, Fax 517-241-1595
E-mail:godboldt@michigan.gov

Map link for the Delhi Café

<http://maps.google.com/maps?f=l&hl=en&q=Delhi+Cafe&near=Holt+MI&layer=&ie=UTF8&om=1&z=13&ll=42.658328,-84.533443&spn=0.061353,0.101967>

The Detroit Salt Mine

by E.Z. Manos,
Detroit Salt Company

Abstract

The Detroit Salt Mine, currently operated by the Detroit Salt Co. LLC, is one of the oldest underground room and pillar mines in the United States that is still in production. Mining at the Detroit Salt Mine began in 1906 with the sinking of the arduous # 1 shaft. Mining continued through the years, becoming progressively more modern in its equipment and techniques, until it was closed in 1983. In 1997, after a period of care and maintenance, the newly formed Detroit Salt Co. LLC decided to reopen the mine. Upon completion of an extensive rehabilitation program, salt production resumed in 1998. This mine is unique in that it lies under a heavily urbanized area within metropolitan Detroit. The mine and its history make an excellent case study for the continuing co-existence between the mining industry and its environs.

Biography

Emanuel Z. Manos (E.Z.) is a homegrown Michigander and is a graduate of Michigan Technological University where he obtained a Bachelors of Science Degree in Mining Engineering. Following graduation, Emanuel's career had been spent working in various professional capacities in the underground and tunneling industry throughout the United States. His most notable tunneling work includes the Super Conducting Super Collider Project in Waxahachie Texas, and the Yucca Mountain Nuclear Waste Storage Project in Mercury, Nevada. His underground mining background includes work in underground copper at (White Pine Mine, at White Pine Michigan), in underground salt at (the Cleveland Mine, at Cleveland, Ohio and in underground lime-stone at (the Black River and Cabin Creek Mines, at Maysville, Kentucky) Currently, E.Z. is Vice President of Operations for Detroit Salt Company. This small company was formed in 1997 to reactivate the existing Detroit Mine as an operating underground rock salt mine within the City of Detroit, Michigan.

Mr. Manos holds memberships in several mining and geologic societies, including; the Society of Mining Engineers, International Society of Explosive Engineers and the Michigan Basin Geologic Society. Over the past years, Mr. Manos has authored and published numerous papers on the subjects of mine ventilation, mining methods and DPM health and safety issues.

New Newsletter Editor

This will be the last newsletter that I produce for MBGS. I appreciate the support that the officers and members have provided me to over the last four years. Arlene Anderson-Vincent with Malcolm Pirnie has volunteered to take over this position. I encourage MBGS members to help Arlene produce a newsletter with variety and substance by forwarding newsworthy articles, photos, and field trip and meeting information to Arlene for publication. Arlene may be reached at aanderson@pirnie.com.
THANKS ARLENE!

Carbonate Reservoir Characterization Workshop and Short Course May 4, 2007

At the Michigan Basin Core Research Laboratory, a part of the Michigan Geological Repository for Research and Education (MGRRE) Western Michigan University
5272 W. Michigan Avenue, Kalamazoo, MI 49008-5241

This one-day workshop and short course will focus on:

1. Fundamental aspects of carbonate sedimentation, including key depositional processes and environment, facies types and diagenetic modification from the standpoint of potential reservoir quality and distribution
2. Reservoir characterization issues in the context of a sequence stratigraphic framework, which provides a valuable predictive component

We will use examples from the Michigan Basin and other petroleum basins around the world.

As a participant at this hands-on workshop, you will have an opportunity to:

- Evaluate core, cuttings and thin sections that
- Illustrate major facies types and pore architectures of typical carbonate rocks

Agenda and Program:

9:00-9:15 Welcome

9:15-4:00 Program (with breaks and lunch time)

William B. Harrison, Professor Emeritus, and Director of the Michigan Basin Core Research Laboratory, Bill has authored dozens of papers on Michigan geology. He is part of a research team at Western Michigan University working on the origin and characteristics of dolomite in Michigan reservoirs and on the potential for geological sequestration of CO₂ in Michigan formations.

G. Michael Grammer, Associate Professor in the Department of Geosciences Director of the Michigan Geological Repository for Research and Education at Western Michigan University, Mike joined WMU in 2002. Previously, he was a senior technical consultant with Texaco and has consulted both domestically and internationally. He has been an AAPG Distinguished Lecturer, has led several AAPG field courses and has published over a hundred times on carbonate reservoir characterization issues, including as lead editor of AAPG Memoir 80 "Integration of Outcrop and Modern Analogs in Reservoir Modeling". Mike is part of a research team at Western Michigan University working on the origin and characteristics of dolomite in Michigan reservoirs and on the potential for geological sequestration of CO₂ in Michigan formations.

Course fee: \$125 includes lunch, refreshments and course notes

Workshop fee: \$125. You'll get a workbook, refreshments, and lunch. Sorry, we can't "save" seats without payment.

Cancellations: We'll refund in full for cancellations received by April 24. After that, we'll refund if a paid participant takes your place.

Location: Michigan Geological Repository for Research and Education (MGRRE), part of Western Michigan University, at 5272 W. Michigan Avenue, Kalamazoo, MI 49006. For a map and driving directions, please see the page following the registration form.

To register with a credit card by phone, please call Linda at (269) 387-8633 or Kathy at (269) 387-8633. To register by e-mail, contact linda.harrison@wmich.edu

To register by street mail or fax, please use the form below. Our FAX number is: (269) 387-5513.

Workshop Registration Form **Carbonate Reservoir Characterization** **Workshop and Short Course**

Michigan Basin Core Research Laboratory, a part of the Michigan Geological Repository for Research and Education (MGRRE) Western Michigan University
5272 W. Michigan Avenue, Kalamazoo, MI 49008-5241

NAME _____ (For your name tag)

COMPANY _____

STREET OR MAILING ADDRESS _____

CITY _____ STATE _____ ZIP _____

PHONE _____ EMAIL _____

The following is a letter of appreciation to the MBGS from the Michigan Basin Core Research Laboratory for our recent donation of \$500 to the core repository.



William B. Harrison, III
Director

G. Michael Grammer

Assistant Director

David A. Barnes

Robb Gillespie

Professors

Linda K. Harrison

Administrator

Michigan Basin Core Research Laboratory

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April 19, 2007

Michigan Basin Geological Society
c/o Mr. Thomas Hoane
1748 Danby Lane SE
Grand Rapids, MI 49506-4823

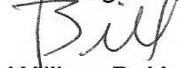
Dear Tom and all our friends at MBGS,

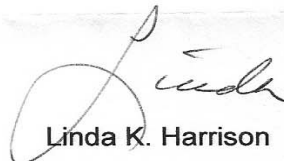
Thank you so much for your recent donation of \$500. We really appreciate your continued support.

We have completed a lot of the work here, but some critical pieces still need to be put into place—like additional electric outlets and plumbing modifications. All that takes money and we really welcome your help.

We also want you to know how much we appreciated your members coming out to the last meeting here in that lovely spring snow. That took real dedication.

Best regards,


William B. Harrison


Linda K. Harrison