

On the Rocks



A Newsletter of the Michigan Basin Geological Society
E-mail version

2001-2002 Number 7

www.mbgs.org

March 2002

EVENTS

February 25-27, 2002: 2002 SME Annual Meeting in Phoenix, Arizona. Contact Tom Godbold for information (See MBGS Officers List).

February 26, 2002: AIPG Section Meeting. Dr. Michael Barcelona from WMU and Mr. David Kaminsky of Severn Trent-QED will give a presentation titled: "What's New About Low-Flow (Minimal Drawdown) Sampling? The meeting will be at the Weber's Inn in Ann Arbor, Michigan.

March 13, 2002: Joint MBGS-SPE meeting with S. M. Bruce Bailey, Bailey Geological Services Ltd., London, Ontario presenting: "The Extremely Complicated, 'Simple' Pinnacle Reef Reservoirs of Ontario."

March 10-13, 2002: AAPG annual meeting, Houston, Texas. Professor Emeritus at U of M and honorary MBGS member James E. Wilson will receive the 2002 Sidney Powers Memorial Award.

May 17-19, 2002: Karst fieldtrip, family style sponsored by the DEQ Geologic Outreach Committee. The trip is open to other professionals and their families and will be lead by Tyrone Black. Details to come.

October 6-8, 2002: AAPG annual Eastern Section meeting, Champaign, Illinois.

“The Extremely Complicated, ‘Simple’ Pinnacle Reef Reservoirs of Ontario”

by Bruce Bailey

The Silurian pinnacle reefs of Ontario are usually regarded as being simple, underground 'barrels' containing crude oil or natural gas, and the exploitation and production techniques which are used to exploit them are often equally simple. Unfortunately, their production history often shows that they behave in unexpected ways, which relate directly to their extremely complicated geological makeup. These geological configurations are most often related to the many karst episodes the reefs have undergone, but salt-plugging, and secondary marine and non marine cements (most notably travertine deposition) are equally responsible for destroying or modifying the beneficial effects of this kind of weathering. This presentation is an attempt to outline some of these reservoir complications. Ten different reservoir types are described, and their implications for everyday oil and gas industry operations are considered.

AIPG Michigan Section Meeting

The meeting will take place at Weber's Inn, 3050 Jackson Road (Exit 172 off I-94), Ann Arbor, Michigan. AIPG members \$30.00, nonmembers \$35.00, and students \$20.00. TIME: 5:30 for drinks, 6:00 for the meal and 6:45 for the presentation. Please call Bruce Beltman at 517-346-5080 with your reservation and dinner selection. Dinner choices are London Broil, Chicken Marsala, or Grilled Vegetable Napoleon. Reservations must be made by February 21, 2002.

MBGS-SPE Meeting

March 13, 2002

Location: Holiday Inn (South)
6820 S. Cedar St., Lansing, MI.

Schedule: 5:30 to 6:30 PM Social Hour
6:30 PM Dinner
Presentation after dinner

Cost \$25.00/member \$10.00 Student (includes dinner)

Topic: "The Extremely Complicated, 'Simple' Pinnacle Reef
Reservoirs of Ontario"

By S.M. Bruce Bailey

MBGS Dinner Meeting Reservation

Name _____

Number attending _____ Society _____

Enclosed Registration Fee _____

Please make your check out to the SPE and return to Steve Nowaczewski by
March 8, 2002

Send to: Steve Nowaczewski
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Trip Director

The MBGS is still looking for a person to take over as Field Trip Director. Tim Cowen held this position for many years and has done a great job. This is an opportunity to set up trips to areas that you may have wanted to visit. The Society is also open to nominations for this position. The MBGS can only continue to exist if its members are willing to contribute some of their time to keep it going so I urge you to seriously consider the job.

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.

NEW 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, \$10

Historical CD #3: Six out-of-print publications from 1947, 1959, 1983 and 1991, Northern Devonian and UP Fieldtrips in MI, 2001, \$12

Special Price - Historical CD #1, #2 & #3, \$30

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 Geological Survey Div. 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
c/o Dept. of Geological Sciences
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Michigan State University
East Lansing, Michigan 48824-1115

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The Midwest GeoSciences Group invites you to the University of Massachusetts for two exciting 2-day short courses:

IMPROVING HYDROGEOLOGIC ANALYSIS OF FRACTURED BEDROCK SYSTEMS
June 18 and 19, 2002

This two-day short course/workshop will provide attendees with the practical knowledge to significantly improve hydrogeologic analysis of fractured bedrock, including carbonate, crystalline, and metamorphic rocks. The first day consists of real-world applications for evaluating the role of bedrock fractures in ground-water movement and contaminant transport. Special attention will be given to the inherent difficulties of ground water modeling in fractured bedrock systems. The second day includes a comprehensive comparison of different hydrogeologic field tests and analytical methods for characterizing aquifer properties. Participants will use AQTESOLV for conducting data analyses of pumping and slug testing problem sets. This course includes various workshop sessions of hands-on descriptions of fractured rock core, estimation of core recovery and Rock Quality. (Instructors: [Ken Bradbury](#), University of Wisconsin; Survey, Madison, WI; [Maureen Muldoon](#), University of Wisconsin Oshkosh; [Willard Murray](#), Harding ESE Massachusetts; [Glenn Duffield](#), Developer of AQTESOLV for Windows)

ADVANCES IN CHARACTERIZING GROUND WATER MOVEMENT THROUGH GLACIAL SEQUENCES
June 20 and 21, 2002

This two-day short course/workshop will begin with unraveling the complexity of glacial sequences applied to hydrogeologic site characterization followed by an assessment of the advances in the design, performance and analysis of slug tests. The instructors teach a comprehensive array of concepts ranging from geologic principles to advanced ground water hydraulics. It will include various field exercises and data analyses using AQTESOLV software. The first day workshops focus on practical techniques for improving observational, interpretive, descriptive, and application of glacial stratigraphy. The second day workshops focus on slug testing and will include low-permeability conditions and direct-push (Geoprobe™) boreholes. (Instructors: [Jim Butler](#) and [John Healey](#), Kansas Geological Survey; [Tim Kemmis](#), Earth Tech; [Paul Kesich](#), Fermi National Accelerator Laboratory; [Glenn Duffield](#), Developer of AQTESOLV for Windows)

Continuing Education Units administered by the University of Massachusetts Amherst

All the details are at www.midwestgeo.com

Ontario Oil, Gas & Salt Resources Library Website Announcements

We are pleased to announce the addition of many new developments with the Ontario Oil, Gas & Salt Resources Website: <http://www.ogsrlibrary.com>

1. FREE DIGITAL DATA: the on-going data project with the Library and MNR has reached a major milestone with the introduction of free downloadable data from the Library website. Effective immediately, anyone can download a .dbf file with digital well data from Essex, Kent, Oxford and Perth counties. The data sets include: Well License Number; Well Name; Operator Name; Well Class; Geological Target; Well Type; Well Mode; Total Depth; County; Township; Tract; Lot; Concession; Lake Erie Block; Lake Erie Tract; North/South Boundary; East/West Boundary; Surface Latitude; Surface Longitude; Bottom-Hole Latitude; Bottom-Hole

Longitude; Pool; Start Date; Total Depth Date; Completion Date; Plug Date. Stay tuned for information about our subscription update service.

Other counties will be rolled out over the next two years. We are actively working on plans to market further data relating to geology, production, analyses, logs, etc. In the very near future we will be announcing the complimentary distribution of Ontario digital base maps for registered Library Members, and the ability to access all non-confidential digital data in the Library.

2. Ordering information and a summary of the CD from the 2001 Core Workshop held during the OPI Conference is now available.
3. Orders from the Mining & Lands Commissioner are now downloadable from the website, including the most recent Order No. OG 004-01: Lowrie Holdings Inc. and Clearbeach Resources Inc. and All Leased Landowners in the Romney 6 - 11 - I Pool (Part 1 & 2)
4. Newly issued licences can be directly view from the main level (the file is updated every Friday).
5. Improved well definitions, and a handy conversion chart (for our non-Canadian clients) are now accessible from the main page.
6. Contact information for the Petroleum Resources Centre of the MNR have been added.
7. The Publications page has been reworked, including the addition of information on the CSA Z662-99 Oil and Pipeline Systems reference manual; the addition of the papers from the 39th Annual OPI Conference; and the posting of a Fact Sheet on Leasing which has been accessed by landowners and landowner groups as a reference tool.
8. The Maps page has been updated to include the new Digital Well Location maps, which have replace the outdated OBMs.

In addition to these major updates, you can still access the monthly drilling reports; copies of the Oil, Gas & Salt Resources Act and Regulations; MNR Forms; Core Index; etc, etc, etc.

We welcome any and all input on how the Library can continue to develop and distribute data for the Ontario Oil, Gas & Salt industries.

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Michigan State University

THE ALUMNI/GEOLOGY CLUB

DISTINGUISHED LECTURE SERIES

SPRING SEMESTER, 2002

Jan. 31 Thursday	Dr. Simon Brassel Indiana University	<i>"Molecular Records of Ancient Plankton: Clues to Oceanic Paleoenvironments, Climates and Evolutionary Change"</i>
Feb. 14 Thursday	Dr. William Bartels Albion College	<i>"Vertebrate Evolution in the Basin Margin Environment"</i>
+Feb. 19 Tuesday <u>Brown-Bag Seminar</u> Feb. 20 Wednesday	<u>Candidate for Faculty Position</u> Dr. Francisco G. Gomez Cornell University	<i>"Active Tectonics of the Arabian-African Plate Boundary: The Northern Dead Sea Fault System in Syria and Lebanon"</i> <u>Brown-Bag</u> <i>"Structure and Cenozoic Tectonics of the Intracontinental Atlas Mountains (Morocco)."</i>
Feb. 21 Thursday <u>Brown-Bag Seminar</u> Feb. 22 Friday	<u>Candidate for Faculty Position</u> Dr. Jon Lewis University of Massachusetts	<i>"Instantaneous vs. Geologic Records of Deformation: Opportunities for Discovery at the Cascadia and SW Japan Plate Boundaries"</i> <u>Brown-Bag</u> <i>"Strain Partitioning Along the Sierran-North America Boundary in the Vicinity of the Caso Range, California"</i>
*Feb. 25 Monday <u>Brown-Bag Seminar</u> Feb. 26 Tuesday	<u>Candidate for Faculty Position</u> Dr. David Hindle Geoforschungszentrum Potsdam, Germany	<i>"Insights into Mountain Building from Geology Geodesy and Geophysics"</i> <u>Brown-Bag</u> <i>"How Hard Were the Jura Mountains Pushed"</i>
Feb. 28 Thursday <u>Brown-Bag Seminar</u> Feb. 29 Friday	<u>Candidate for Faculty Position</u> Dr. Zeshan Ismat University of Rochester	<i>"To Be Announced"</i> <u>Brown-Bag</u> <i>"To Be Announced"</i>
*Mar. 11 (<i>Tentative Date</i>) Monday <u>Brown-Bag Seminar</u> Mar. 12 (<i>Tentative Date</i>) Tuesday	<u>Candidate for Faculty Position</u> Dr. Annia Fayon University of Minnesota	<i>"To Be Announced"</i> <u>Brown-Bag</u> <i>"To Be Announced"</i>
Apr. 11 Thursday	Dr. Frank Podesek Washington University	<i>"Shedding Light on The Early Solar System Through Isotope Anomalies"</i>

All lectures unless noted will be at 4:00 p.m. - Coffee will be served at 3:30 in Room 207 Natural Science Building.

All lectures unless noted below will be in 204 Natural Science Building

+Lecture in 145 Natural Science Building

*Lecture in 120 Physics Astronomy Building

Brown-Bag Seminars in 207 Natural Science Building - Noon-1:00 p.m.