



THE OHIO GEOLOGICAL SOCIETY

An Affiliate (1963) of the American Association of Petroleum Geologists (AAPG)

The Newsletter of the Ohio Geological Society

September 2003

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(The president is busy leasing hot properties in an undisclosed location.)

Please sign up for the Well Log workshop ASAP! Details inside.

OGS monthly meetings kick off on September 15th at the Ramada Plaza Hotel in Columbus (4900 Sinclair Rd.) at 7:30, as before, dinner at 5:30 in Justin's Place (in the hotel lobby)

Christopher Laughrey from the Pennsylvania Survey, Oil, Gas and Subsurface Geological Services will be giving a talk:

IDENTIFYING SOURCES OF STRAY CARBON DIOXIDE GAS CONTAMINATION IN WESTERN PENNSYLVANIA

, by Christopher D. Laughrey (Pennsylvania Geological Survey) and F.J. Baldassare (Pennsylvania Department of Environmental Protection).

High concentrations of stray carbon dioxide in buildings are an emerging environmental hazard in some areas of the Appalachian coalfields. In western Pennsylvania, potentially lethal concentrations of CO₂ (>25%) and low volumes of O₂ (<10%) have caused several private homes to become uninhabitable. The CO₂ is primarily anthropogenic, although the specific source is often uncertain. Carbon isotope geochemistry provides the most useful technique for identifying the specific gas source.

Carbon dioxide derived from organic substrates by microbial activity is enriched in 12C, whereas CO₂ derived from carbonate materials is enriched in 13C. The activity of 14C can support the identification of geologically recent microbial gas generation. Groundwater chemistry can support interpretations of an inorganic CO₂ source based on stable isotope data. Case studies from western Pennsylvania demonstrate the utility of isotopic analyses in identifying specific sources of stray CO₂ in buildings.

Welcome New Members!

Maybe next month? . . .

Ohio Geological Society Web Site – <http://www.ohiodnr.com/geosurvey/ohgeosoc/ohgeosoc.htm>

2003

CALENDAR

Ohio Geological Society Meetings
Ramada Plaza Hotel, 4900 Sinclair Rd., Columbus
5:30 p.m. dinner, 7 p.m. happy hour, Presentation at 7:30 p.m.
for more information contact the Vice-President, nicolev@ggasinc.com, 614-781-3259.

Sept 15th
Oct 6th

OGS Christopher Laughrey
OGS Dan Hartman "Well Log Interpretation and Reservoir Characterization of Carbonate Reservoirs in the Appalachian Basin," **Easton Hilton Columbus, OH**. This is a PTTC Sponsored workshop.

Dec 1st
OGS Dr. Ira D. Sasowsky "Detailed analogs for paleokarst reservoirs: Promise and problems"

Other meetings or events of note (check also the PTTC website <http://karl.nrccc.wvu.edu/calander>).

Sept 6-10 AAPG-SPE Eastern Meeting, Hilton Hotel, Pittsburgh, PA, www.aapg-spe-2003.org
Sept 10 PTTC Workshop "Subsurface Fluid Pressures and their Relation to Oil and Gas Generation, Migration and Accumulation" <http://karl.nrccc.wvu.edu/workshops.html>

Sept 28-28 Great Lakes Section- SEPM Field Conference, "Pennsylvanian Sharon Formation, Past and Present" Cuyahoga Falls, Ohio www.isgs.uiuc.edu/gls-sepm
October 7 AIPG Ohio Section Meeting, Alum Creek – our own Ron Rea, Speaker.
Oct 29-30 North American Coalbed Methane Forum Fall Session (contact Ihor Havryluk 412-798-1391 or Dr. Kashi Aminian 304-293-7682 ext. 3406) and Coalbed Methane Workshop (contact Trina Wafle 304-293-2867 ext. 5402), at Stonewall Jackson Lodge, Roanoke, W.Va.



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Geologists host golf outing on a balmy summer afternoon.

Well, it was a warm (hot) sunny day for the Ohio Geological Society's golf outing. We had 54 golfers turn up at the par 72 Chapel Hill Golf Course in Mt. Vernon, Ohio. The course was in beautiful shape, even after we left. Fourteen teams competed in the scramble format outing. Thanks to the generosity of our sponsors, there were skills prizes for every hole.

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|---------------------------------|----------------------|---------------------------------|-----------------|
| 1. Closest to the pin in two | Ed Mack | 10. Longest drive | Tom Orlando |
| 2. Longest drive | Ed Mack | 11. Closest to the pin in three | Robin Lemberger |
| 3. Closest to the pin | Scott Jackson | 12. Closest to the pin | Tom Orlando |
| 4. Straightest drive | Rod Sheets | 13. Longest putt | Bill Patten |
| 5. Closest to the pin in two | Jay Henthorne | 14. Longest drive | Mike Abernathy |
| 6. Ladies longest drive | Amy Lang (nee Burke) | 15. Closest to the pin in two | Brad Byrd |
| 7. Closest to the pin in three | Heather Marsh | 16. Closest to the pin | Robin Lemberger |
| 8. Closest to the pin from sand | Ted Kays | 17. Shortest drive in fairway | Rick Reeve |
| 9. Longest putt | Robin Lemberger | 18. Longest putt | Denny Tillipaw |

The winning team crafted by Jay Henthorne was stacked with Mike Abernathy, Bill Bennett, and Doug Gonzales shooting a minus ten 62 (10 birdies and 8 pars) – but no one is bitter, really. The catered pork chop lunch was outstanding. Please take a moment to thank these sponsors the next time you see them:

Superior Well Services	Belvoir Oil & Gas	Seismic Exchange
Stratagraph NE	EDI	Vorys, Sater, Seymour and Pease
CGAS Exploration, Inc.	Halliburton	Appalachian Geophysical Services
John Forman	Elite Seismic Processing	Petro Evaluation
Mason Dixon Energy, Inc.	Elexco Land Services	Precision Geophysical, Inc.
Miller Supply	Allegheny Wireline	Capstar Drilling
R&G Realty Co., Inc.	Geo-X Systems, LTD.	Waterous & Company
Robin Lemberger	AAPG Foundation	Great Lakes Energy Partners
Austin Powder		

Hope to see YOU at the outing next year.

The Ohio Geological Society and Appalachian PTTC present,
in conjunction with the Ohio Oil & Gas Association Fall Meeting

a workshop on October 6th, 2003 at the Easton Hilton, Columbus, Ohio

Well Log Interpretation and Reservoir Characterization of Ordovician and Cambrian Carbonate Reservoirs in the Appalachian Basin

Dan Hartman
DJH Energy Consulting

In this one-day class, using Appalachian Basin data, we will:

- Investigate carbonate pore systems and their porosity-permeability characteristics.
- Investigate carbonate well log interpretation techniques to characterize lithology.
- Integrate pore systems information with well log interpretation with actual production.

To demonstrate that with an understanding of rock type, saturation models, and elevation of rocks in a hydrocarbon column we can forecast performance.

Strategies will include:

- Determining lithology from density-neutron plots (with Pef curve estimates) and mud logs.
- Understanding Archie Sw for carbonates, using proper Rw, and adjusting for cementation exponent for pore types.
- Using Sw depth plots to identify rock quality and net pay by flow units.

Dan J. Hartman received his B.S. Degree in geology from New Mexico Tech. in 1963. He then joined Pan American Petroleum (now BPAmoco) where he worked in various capacities ranging from exploration geologist through supervisor of exploration and exploitation fro the western United States and Alaska. From 1981 through 1985 Hartman served as vice president/general manager for Mitchell Energy Company and was responsible for the western United States and Canada. In 1985 he formed DJH Consulting, which specializes in exploration/exploitation consultation and education for the oil industry. Hartman has extensive international and domestic experience that includes projects involving complex Sw models of shaley sandstones and carbonates. He has published some of his work and taught short courses on a wide variety of reservoir type and quality issues.

The workshop will run 8:30AM to 5PM. Registration and refreshments will begin at 7:30AM.

For information concerning the workshop content, contact Pete MacKenzie: pete@cgasinc.com or 614-781-3271

ADVANCE REGISTRATION FORM

PTTC Focused Technology Workshop – October 6, 2003

Pre-register before October 1st. Cost: \$75.00 – includes handbook, breaks, and lunch

Name _____ Nickname for badge _____
Company _____ Address _____
City _____ State _____ Zip _____ Phone _____
Email address: _____

Make check payable to: Ohio Oil & Gas Association

Mail To: PTTC Workshop, P.O. Box 535, Granville, Ohio 43023-0535

To pay by credit card, contact the Association by phone at: 740-587-0444

Dues Notice

The OGS membership year runs mid year, July 1st to June 30th.

Last year circumstances caused the 2002-2003 renewal notices to go out very late in the year (in December – actually mid-membership year).

If you have not recently renewed your OGS membership, you will be receiving a dues statement for the 2003-2004 membership year in the near future.

If you have any questions or concerns, please do not hesitate to contact an officer.