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Volume 62

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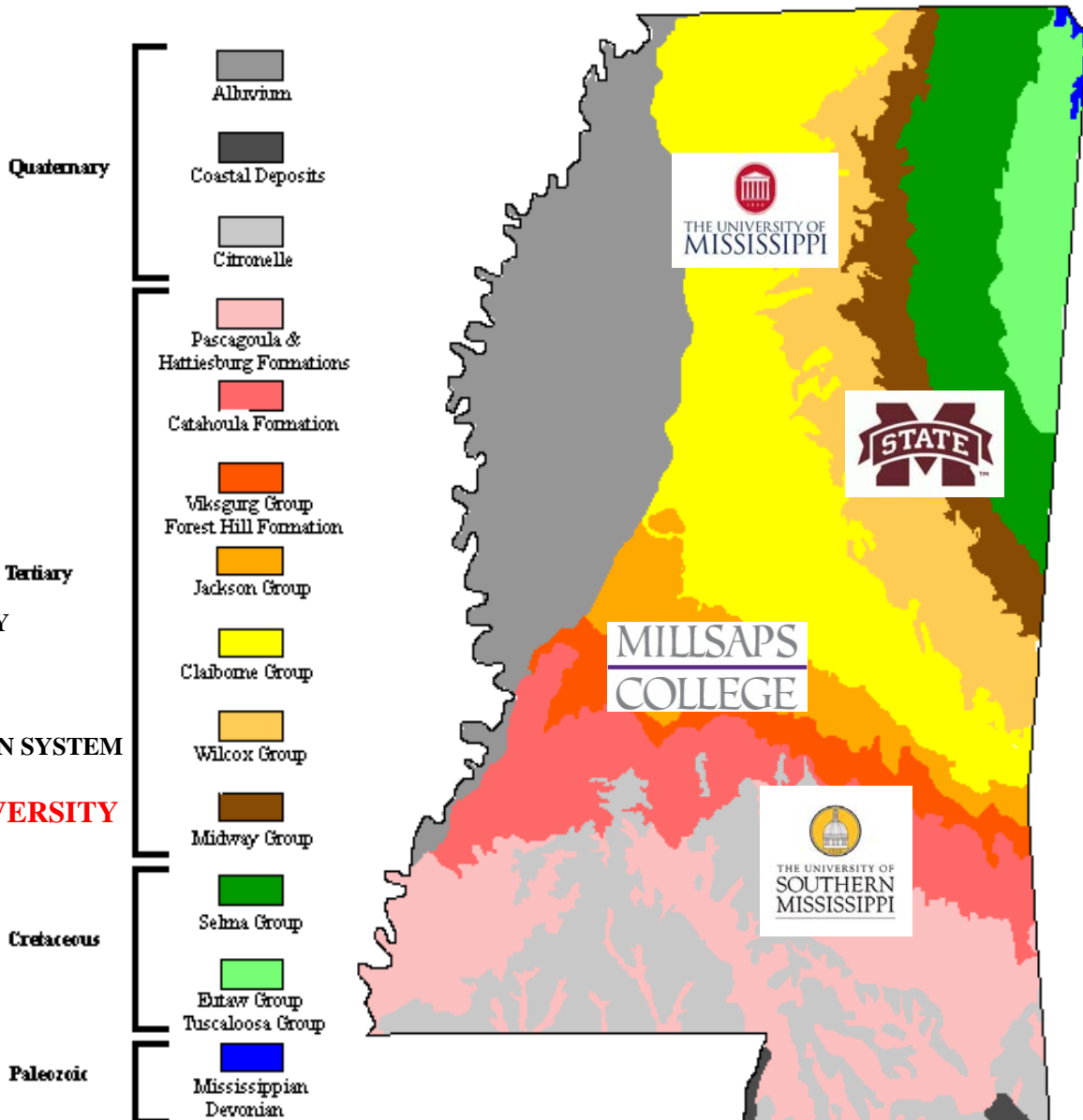
April 2014

**BOLAND SCHOLARSHIP
PRESENTATIONS**

EZAT HEYDARI
EARTH SCIENCE
JACKSON STATE UNIVERSITY

DR. DAVID T. DOCKERY
THE ENERGY SUMMIT
EARTHQUAKE NOTIFICATION SYSTEM

**MISSISSIPPI STATE UNIVERSITY
NEWS
ROCK HUMOR**



Modified from Windows Into Mississippi's Past
David T. Dockery
Mississippi Department of Environmental Quality
Circular 6
1997



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PRESIDENT'S LETTER

Neil Barnes

Friends,

Spring has arrived in earnest. Dogwoods and azaleas. Tulips at their peak. Daffodils long gone. And the threat of it being too warm to be comfortable. Cycles and seasons. We are at the end of our MGS regular luncheon year. This Thursday we honor the recipients of the Boland scholarship from Ole Miss, Millsap, Southern Miss and Mississippi State. There were great candidates again this year making the Boland Scholarship Committee's decisions uncomfortably hard. That a good thing! Also this year for the first time we will honor a student with the Dustin Johnson Memorial Award. Please come to the luncheon on Thursday where you can meet this year's honorees.

I write this while attending the AAPG convention in Houston. It's a big deal with lots of talks, posters, and vendors. As always there are plenty of practical reasons not to attend. However, I have committed to attending because of the professional stimulation it provides. Every now and again we need to be reminded that the world is larger than we think and that others are working on similar problems elsewhere. Commit to learning something from somewhere else and bringing it to whatever you are working on!

A keynote talk given by Carlos Dengo highlighted the coming gap in geoscientists. He quoted a source which indicated by 2021 there would be a shortage of geologists of all kinds in excess of 100,000! That's a staggering number. I don't know if I completely buy that number but even half of that would be significant. He challenged the audience to be helpful in encouraging good students to be geoscientists. And to support them and the programs which will train them. Along those same lines I heard of two programs with huge numbers of undergraduate geology majors. I believe one was the University of Houston with what, 700 undergraduates, and the other was the University of Calgary with 1,000. Again, maybe I have the details wrong but directionally that's staggering. Carlos Dengo, Director of the Berg-Hughes Center for Petroleum and Sedimentary Systems at Texas A & M said that even with their resources they can only accept about 10% of those wanting to enter their program. So what's my point? Professionals – find a program you can support and participate in it. Mentor some students. Join our Red Book team where we match a student and a professional to provide a basic field map for publication. Remember what you love about geology and share it with a student. And, if you can, hire one - whether for the summer or part time or even full time. Giving our Mississippi geology students some experience on their resumes would be huge for them as they compete for the best jobs.

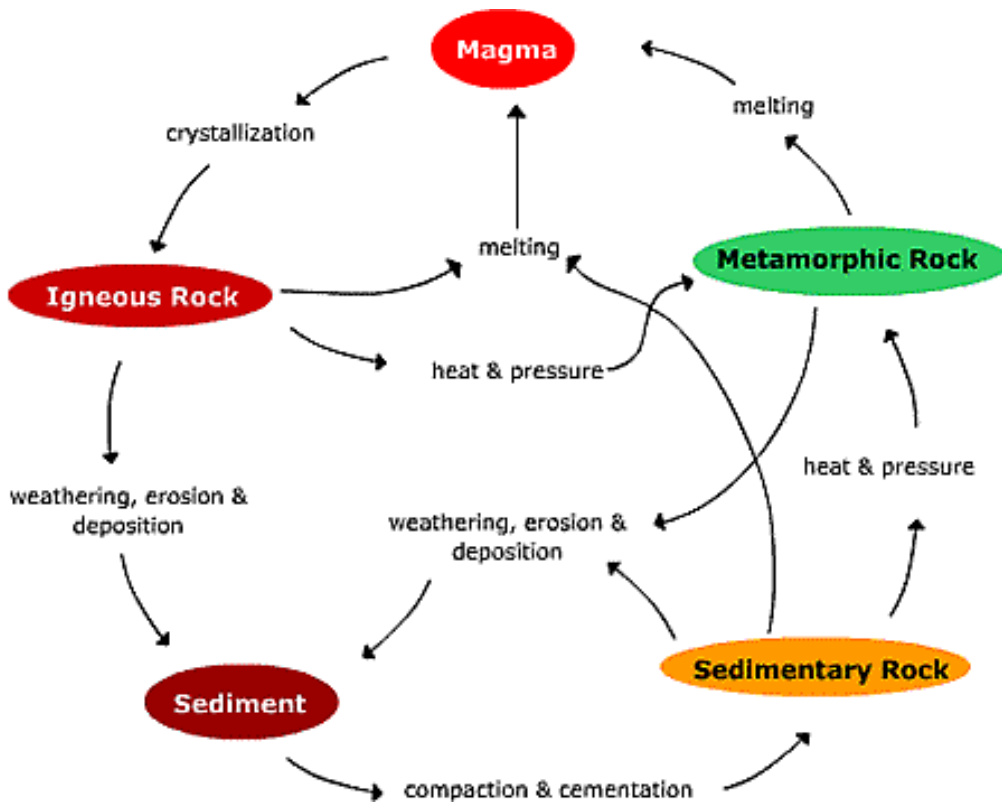
An idea for the future – I was speaking with one of our members. He thought he could put together a good float field trip that would include some nice outcrops, fossil collecting and a great time. Ya'll up for such a trip? More to come.

As I am reminded here at AAPG, we are so blessed to be able to peak, although dimly sometimes, at the wonders of creation. I hope folks in other fields enjoy their work as much as we do. Until the next time....

Neil

2013-2014 MGS MEETING SCHEDULE

When	What/Who	Where
September 12, 2013	Fall BBQ	Jackson Yacht Club-5:30pm
October 10, 2013	Steve Craft Recent Activity: Smackover South Alabama	River Hills – 11:30am
November 22, 2013	MSOGB	River Hills – 11:30am
December 14, 2013	MAPL Christmas Party and Dance	Duling Hall, Fondren District 7:00pm
January 9, 2014	John Ryan HydroFracking - Mississippi Operators	River Hills – 11:30am
February 13, 2014	Dr. David Dockery Climate Change	River Hills – 11:30am
March 13, 2014	Dr. Ernest A. Mancini	River Hills – 11:30am
April 10, 2014	Boland Scholarship Awards	River Hills – 11:30am
May 8, 2014	Spring Fling	Jackson Yacht Club– 5:30pm



OFFICERS MEETINGS

August 4, 2013
September 10, 2013
October 8, 2013
November 20, 2013
December 12, 2013
January 7, 2014
February 11, 2014
March 11, 2014
April 8, 2014
May 6, 2014



BOLAND SCHOLARSHIP

MGS Members,

This month, the Mississippi Geological Society along with the Boland Scholarship Fund are honoring the most outstanding overall geoscience students for the 2013-2014 year.

Each year, the Boland Scholarship awards 1 student from each institution a check that rewards students for their hard work and dedication to the geosciences and their community.

Please make plans to attend this months meeting and help support our future geologists.

Best Regards,

**Matt Caton
Editor**





JACKSON STATE UNIVERSITY

EARTH SYSTEM SCIENCE DEGREE

Ezat Heydari
Dept. of Physics, Atmospheric Science, and Geoscience
Jackson State University

ezat.heydari@jsums.edu

Jackson State University (JSU) is one of the first, if not the first, Historically Black College and University (HBCU) to establish a comprehensive degree program in Earth System Science. The program was initiated and designed by JSU's faculty members in 2003. Its curriculum was approved by the University committees in 2006 and by the Mississippi's Institute of Higher Learning in 2008.

Earth System Science (ESS) is a relatively new discipline which views Earth as a system consisting of four inter-related domains: Geosphere (solids), Hydrosphere (liquids), Atmosphere (gases), and Biosphere (life). ESS advocates an understanding of all of Earth's domains because it believes that a change in one affects all others.

ESS is within the College of Science, Engineering, and Technology. Therefore, ESS students are required the same basic science courses as those majoring in Chemistry, Physics, or Biology. These include two semesters of calculus, chemistry, physics, biology and their respective laboratories.

ESS curriculum offers courses for understanding of the Geosphere, the Hydrosphere, and the Atmosphere. Geosphere-related courses include Earth and Space Science, Earth History, Sedimentary Environments, Mineralogy – Petrology, Structural Geology, Global Change, Environmental Geology, and their related labs. Hydrosphere-related courses include Hydrology, Oceanography, Marine Science, and Geochemistry. Atmosphere-related courses include Meteorology, Climatology, and Astronomy. Other required courses are Geographic Information System (GIS) and computer programming.

ESS program has two major goals: to educate and graduate Earth Science students at a major HBCU, and to enhance Earth Science knowledge of general student population particularly those majoring in elementary and middle school education through its introductory Earth Science courses. It also provides workshops for in-service K-12 teachers and Middle School students.

ESS program has labs for sample processing, petrological studies, and sedimentological investigations. It also houses a Burker D-8 powder X-Ray Diffraction instrument. All necessary funds for the purchase of samples, instrumentations, equipments, and teaching aids were generated through grants from external, out of state funding agencies.



NEWS

MGS WEBSITE

Members

Please take the time to visit us on our website. You can view current and previous bulletins, update your address, access local and regional organizations, well records/data, oil and gas boards, neighboring societies and upcoming events. There are also several links to interesting articles and papers.

www.missgeo.com

The screenshot shows the homepage of the Mississippi Geological Society (MGS) website. The header includes the MGS logo and navigation links for Home, Contact, Site Map, and Feedback. The main content area features a welcome message and a featured event: "MGS Noon Luncheon" at the River Hills Club on January 9, 2014, with speaker John Ryan. The topic is "Hydrofracking: Are Mississippi Operators And E&P Professionals Prepared For the Environmental Risk?". Below this, there are links to read the society's bulletins in PDF form and to access the member directory. A sidebar on the left contains a menu of site sections like Home, History, Officers, Committees, Delegates, Meetings, Publications, and Join Us. A right sidebar lists upcoming AAPG events, including the Playmaker Forum and the 5th Annual AAPG-SPE Deepwater Reservoirs Geosciences Workshop. A small inset box provides instructions on how to read the E-Bulletin using Adobe Reader.

MGS Home Contact Site Map Feedback

The Mississippi Geological Society

Home History Officers Committees Delegates Meetings Publications Join Us

Home

History

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Links Of Interest

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- [SEPM](#)
- [PITC](#)
- [FLIPPA](#)

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Includes ADOBE® READER

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[Click here to read the current \(December\) edition.](#)

To Read Past Bulletin Issues, [click here.](#)

Access the Society's Member Directory!
[Click here to view \(members only; need password\).](#)

We're always updating our Membership Directory!
Please help us by taking the time to update your contact information. [Click here and fill out our handy form.](#)
MGS thanks its dues-paying members for their support.
To verify you've paid your dues, please check the latest Bulletin.

Workover Rig at Wellsite

Upcoming AAPG Events

- [Playmaker Forum](#)
January 23
- [5th Annual AAPG-SPE Deepwater Reservoirs Geosciences Workshop](#)
January 28-29
- [Mississippian Lime Forum](#)
February 20
- [AAPG/STGS Eagle Ford + Adjacent Plays & Extensions Workshop](#)
February 24-26



MONTHLY COLUMN

Dr. David T. Dockery III

MISSISSIPPI'S ENERGY GOVERNOR AND THE ENERGY SUMMIT

Have you ever wished for a friend in the governor's office? Well, if you are a petroleum or energy sector geologist, this should be your big chance. Governor Phil Bryant was selected as Chairman of the Southern States Energy Board on September 25, 2012, and unveiled his energy plan at the governor's first energy summit on October 4, 2012. The summit's theme was titled, "Energy and Economic Development in the 21st Century." The one-day summit brought together industrial experts to discuss Mississippi's energy future. Former New York City Mayor Rudy Giuliani was the featured speaker. A press release for the summit stated that, "Mississippi has been named the top spot in the world for oil and gas investment and is home to diverse energy resources." The summit was organized by the Mississippi Development Authority and the Mississippi Energy Institute and took place from 9:00 a.m. to 4:30 p.m. at the Jackson Convention Complex. The 2012 Energy Summit was published in the October 2012 issue of MDEQ's *Environmental News* and the following 2013 Energy Summit was published in the December 2013 issue of *Environmental News*.

The 2013 Governor's 2nd Energy Summit was held in the Jackson Convention Center from 9:00 a.m. to 1:00 p.m. on Thursday, December 5. The opening welcome was given by the President of the Mississippi Energy Institute, Patrick Sullivan. Sid Salter, Chief Communications Office and Director of Public Affairs for Mississippi State University, was the summit moderator. Salter told an audience of more than 800 conferees that the summit was to be informative and entertaining. He later addressed the audience: "Like Gus Malzahn said to Nick Saban, 'I have something I want to run by you'" (a joke on the Auburn-Alabama game). The summit program cover had a map of Mississippi with the location of oil and gas pipelines and the geologic outcrop belts of the Wilcox Group and the Cockfield Formation (from our state geologic map), units containing important lignite resources.



MONTHLY COLUMN

Dr. David T. Dockery III

Governor Phil Bryant (Figure 1) opened the summit with his vision that the state should leverage its energy strengths to grow other areas of its economy, such as manufacturing and technological development. He also discussed his legislation to make new buildings more energy efficient. David Dismukes, Consulting Economist for the Acadian Consulting Group, continued the Governor's discussion on "Leveraging energy for industrial development." Dr. Frank Clemente, Professor Emeritus at Penn State University, discussed "Coal's role in meeting global energy needs." Dan DiMicco, Executive Chairman of Nucor Corporation



Figure 1. Governor Phil Bryant addressing the Energy Summit opening session.



Figure 2. Nucor Steel Jackson, Inc., VP/General Manager James A. Sheble (left), Mississippi Governor Phil Bryant (center), and Nucor Corporation Executive Chairman Dan DiMicco (right).

(Figure 2), spoke on "Energy's role in U.S. Manufacturing." He noted the country's new competitive advantage due to low-cost and abundant energy resources. He recommended these resources be used at home to support manufacturing jobs here rather than be sold abroad to help foreign economies. DiMicco also stated that the widening gap between the "haves and have nots" was due to the loss of high-paying manufacturing jobs during the recent recession.



MONTHLY COLUMN

Dr. David T. Dockery III

Before lunch, Dr. Hank Bounds, Mississippi Commissioner of Higher Education, moderated a panel discussion with Dr. Rodney Bennett, President of the University of Southern Mississippi, Dr. Dan Jones, Chancellor of the University of Mississippi, and Dr. Mark Keenum, President of Mississippi State University. Each discussed cooperative efforts between their universities and private industries in the energy technology sector. Dr. Mark Keenum recognized the university's energy-efficient competition-winning EcoCAR2 team, many of whom were present at the summit (Figure 3).



Figure 3. Mississippi State University students who worked on the MSU EcoCAR2 competitive hybrid at the Energy Summit (top) and with their EcoCAR2 (bottom). MSU finished #1 in the first year of competition and 5th in the second year. The final competition will be a test of the car in Milford, Michigan, in May of 2014.



MONTHLY COLUMN

Dr. David T. Dockery III

Newt Gingrich (Figure 4) mentioned the long gas station lines due to price controls in the 1970s. Federal price controls on gasoline from 1973-1980 created an artificial shortage and long lines at gas stations. Stations could not raise prices to cover increasing labor and operating costs, so they cut their hours or closed down after selling all their gas. This created fewer stations and even longer lines. Price controls were lifted when the situation became unsustainable (during the Iranian oil crisis of 1979), and the gasoline crisis was over. The lesson to be learned was that industry and free markets, not government manipulation, grow the economy.



Figure 4. Crowd stands to welcome Newt Gingrich as keynote speaker.

When the next energy summit comes around, I recommend that MGS members show their support, make a reservation, and attend the meeting. It's free, with great speakers, a free lunch, and interesting people around the lunch table. I saw a lot of "peripheral-energy" people at both summits with less reason to attend than our own MGS membership.

Interesting energy facts given at the summit:

1. The United States is #1 in proven coal reserves with about 27% of the total reserves.
2. The United States is #3 in oil production for 2013 behind #2 Saudi Arabia and #1 Russia.
3. Texas pumped 2.7 million barrels of crude oil per day in September of 2013 due to new oil from hydraulic fracturing in the Eagle Ford, putting it in the ranks of heavy-hitting countries such as Venezuela, Kuwait, and Nigeria.
4. Mississippi now pumps 23 million barrels of oil per year.
5. The Fraser Institute, which developed rankings for investments in 157 oil- and gas-producing regions throughout the world, ranked Mississippi as #2 regarding energy policy and first in its tier when energy policy was considered along with proven oil and gas reserves, placing it ahead of Saskatchewan, Kansas, Alabama, Manitoba, and the North Sea region of the Netherlands.

You are cordially invited to the
Sixth Annual Shreveport Geological Society
Geology and Wine Dinner

***The Geology and Wine
of Eastern France***

Champagne, Alsace, Burgundy, and Rhône

April 11, 2014

Petroleum Club of Shreveport, 16th Floor

Champagne – 6:30 p.m.

Presentations and Dinner – 7 p.m.

with presentations by

Kevin Hill, geophysicist

and featured guest speaker

Clive Coates, Master of Wine

one of the world's leading wine authorities
also signing his new book *My Favorite Burgundies*

Five courses, seven wines - \$85 per person
Seating is limited to the first 100 paid reservations
Tables of eight are available

Buy your tickets online now.

<http://sgs1.org/events>

Reservations can also be made by check to the
Shreveport Geological Society
and mailed to
Hill Geophysical Consulting
415 Texas St., Ste. 200
Shreveport, LA 71101

Call 318-221-3329 for more information.

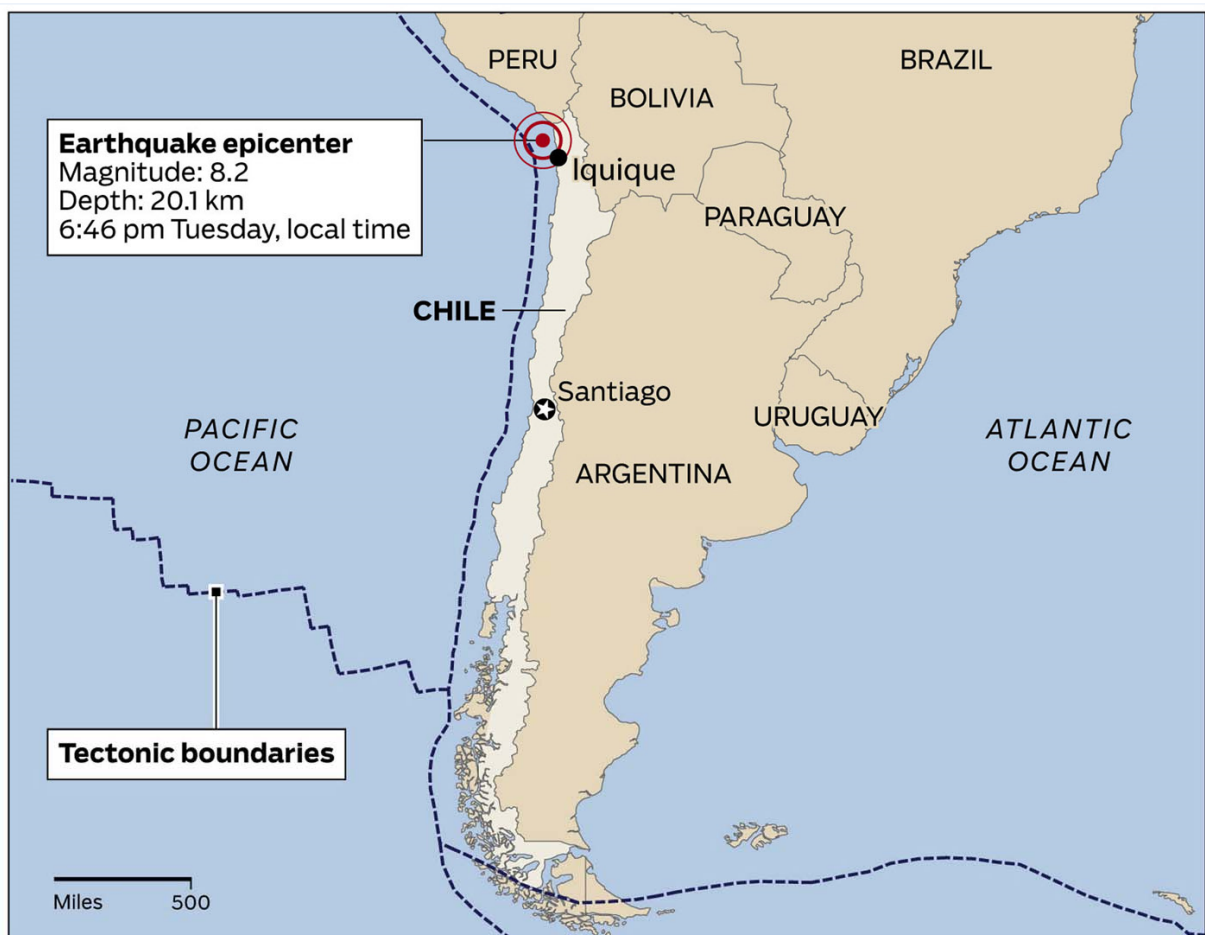


MONTHLY ARTICLE

Submitted by: Dr. David T. Dockery III

EARTHQUAKE NOTIFICATION SYSTEM

I teach a Physical Geology course on the Rankin Campus of Hinds Community College. The evening class of March 18, 2014, covered a chapter (Chapter 11) on earthquakes and tsunamis. After the lecture, I showed an hour's worth of YouTube videos of Japan's April 9, 2013, earthquake and tsunami, including car-cam videos of drivers swept up in giant waves. The following week's class was on the Earth's Interior (Chapter 12), and the week after that (April 1, 2014) was on Divergent Boundaries: Origin and Evolution of the Ocean Floor, which continued the earthquake theme. During the April 1 lecture, a young lady in the class had much to tell about the new earthquake notification app on her cell phone and about a recent 5.4 magnitude quake in California, which caused little damage but was the same magnitude of an earthquake she had experienced in California. I was glad for her enthusiasm but, at the time, was more interested in finishing my lecture and starting the laboratory session. In lab, as I am struggling to explain a difficult assignment, up she pops to read a text: "8.0 magnitude earthquake off the coast of Chile; tsunami warning for the Pacific!" Our physical geology class heard the news in real time, and everyone knew the significance. So, if you want to know more than your professor, subscribe to the U.S. Geological Survey Earthquake Notification System.



SOURCES: U.S. Geological Survey, ESRI, Reuters

TRIBUNE

Figure 5. April 1, 2014, Magnitude 8.2 Earthquake off the coast of Chile.



MISSISSIPPI STATE UNIVERSITY

MSU News

Updates

The schedule for Brown Bag talks given in the Department of Geosciences at Mississippi State University is listed below. Students, professors, and industry experts in the geosciences field give these short talks on Fridays during lunchtime. Erik Larson schedules the roster and can be contacted via email eb147@msstate.edu if you are interested in giving a presentation.

March 21st – Barrett Gutter

March 28th – Mississippi Geological Society: Brian Sims-Geology Gumbo

April 4th – Dr. Adam Skarke

April 11th – Dr. Kathy Sherman-Morris

April 25th – Mississippi Geological Society

May 8th – Last Day of Exams

The Geosciences Department at Mississippi State University has set the goal of obtaining six workstations so that courses such as Sedimentology, Structural Geology, and a new IBA course can include exercises using industry software. These lab exercises will be designed to give students hands-on experience with real software and real data sets. Financial contributions to this effort can be made through the MSU Foundation, <http://msufoundation.com/s/811/give/start.aspx>. Please designate in the memo line for the Geosciences Technology Fund. Inquiries regarding donations of data suitable for beginning students can be directed to Dr. Brenda Kirkland at BLK39@msstate.edu.

The Imperial Barrel team completed their final leg of the competition on March 19th in Houston, presenting the culmination of their work on the Taranaki Basin, New Zealand to a panel of judges. While they did not place in the top three, the experience they gained from the hands-on training involved in analyzing a basin using real datasets, was tremendous. Also, new networking links amongst oil industry experts were established.



MISSISSIPPI STATE UNIVERSITY

NEWS



The Imperial Barrel Award team posing in front of the BP logo after giving their presentation.



MISSISSIPPI STATE UNIVERSITY

NEWS

Interesting

Department of Geosciences, Mississippi State University,
Co-Host International Conference on Hypogene Caves

--Dr. John Mylroie

In the February 2014 issue of the *Bulletin of the Mississippi Geological Society* (Volume 62, No. 6, pp 24-28), work on modeling paleokarst reservoirs was presented. That article discussed a type of cave called “hypogene”, meaning the cave developed at depth from the interaction of rising fluids and was decoupled from surface hydrology. Fluid flow at depth is by definition laminar flow, and cave geologists have hypothesized that hypogene caves, when brought by uplift to the surface, can be uniquely identified by a series of definitive morphologies at both the wall-rock scale, and the overall scale of the entire cave. There has been much debate in the literature, and at professional meetings, on how diagnostic that cave morphology is as regards cave origin. Given that caves near the land surface, that are currently accessible to human investigation, provide the data-set for deep paleokarst reservoir modeling, being able to properly identify the type of cave is critical to a successful analysis.

To address these issues, a special conference, the *Hypogene Cave Morphologies Conference*, was held at the Gerace Research Centre on San Salvador Island, Bahamas, February 2-7, 2014. Similar to an AAPG Hedberg Conference, or a GSA Penrose Conference, participation was by invitation only. The conference was organized by the Karst Waters Institute or KWI (www.karstwaters.org) in cooperation with the Department of Geosciences at Mississippi State University and the Gerace Research Centre or GRC (www.geraceresearchcentre.com; note British spelling of “centre”). Mississippi State and the GRC have had a cooperative education and scientific research mission since the late 1980s. The Bahamas were chosen for the conference venue because of the many flank margin caves there (see the February issue for an explanation of this cave type) that show identical cave morphologies to hypogene caves, but have not developed under the confined deep-rising flow conditions that characterize true hypogene caves.

The conference attracted 32 participants from 13 countries (Austria, Australia, Brazil, France, Germany, Israel, Italy, Mexico, Poland, Slovenia, Switzerland, Turkey, and the United States). A 14th country participant, from the Ukraine, could not attend due to the political upheaval in his country. The participants gathered in Nassau, Bahama, and 19 of them did a one day field trip to Eleuthera to see some exceptionally large flank margin caves (Figures 1-3). All participants eventually reunited at the GRC. Participation was deliberately kept to the low 30s to allow extended field trips to see many cave types and karst features in the Bahamas, to promote discussion and exchange of opinions, ideas, and facts. Each day had field trips, and talks and posters were presented in the evenings, and one afternoon and one morning. Many of the presentations are available as a proceedings volume that can be downloaded for free from the KWI website at: <http://www.karstwaters.org/publications.php>.



MISSISSIPPI STATE UNIVERSITY

NEWS

The presentations were excellent and highly professional. The presentations and posters lead to a long series of discussions about cave origin and morphology, but the end result as not as conclusive as the conference organizers had hoped. Much more data are needed to successfully characterize cave morphologies to a degree to allow definitive classification. However, the conference has already produced a number of new research collaborations amongst the attendees, and future work looks promising. Eventually those results will trickle down to the oil patch as better models of paleokarst reservoirs and how to best locate and exploit them.



Figure 1. Conference participants examine the “Glass Window”, a breached flank margin cave, on the east coast Eleuthera Island, Bahamas



MISSISSIPPI STATE UNIVERSITY

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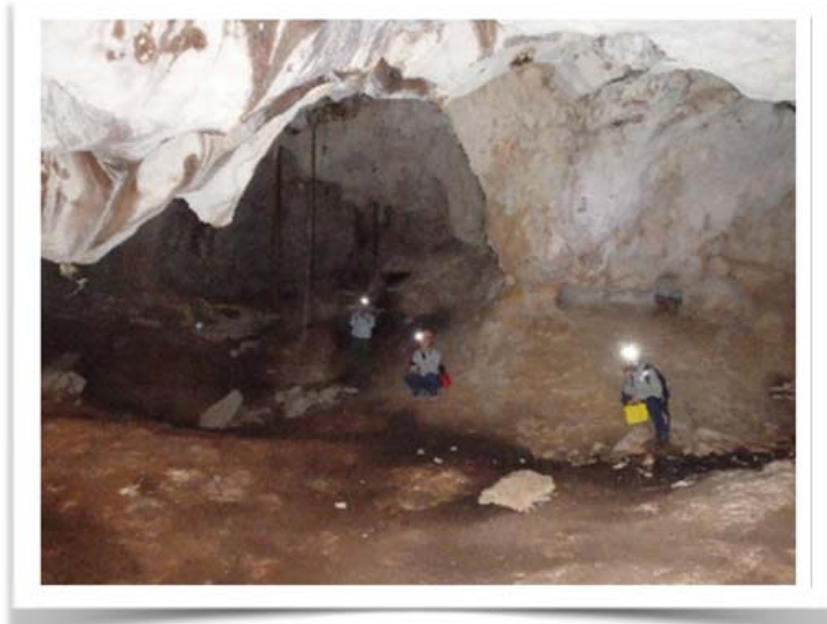


Figure 2. Conference participants in Ten Bay Cave, Eleuthera, a large flank margin cave on central Eleuthera Island, Bahamas

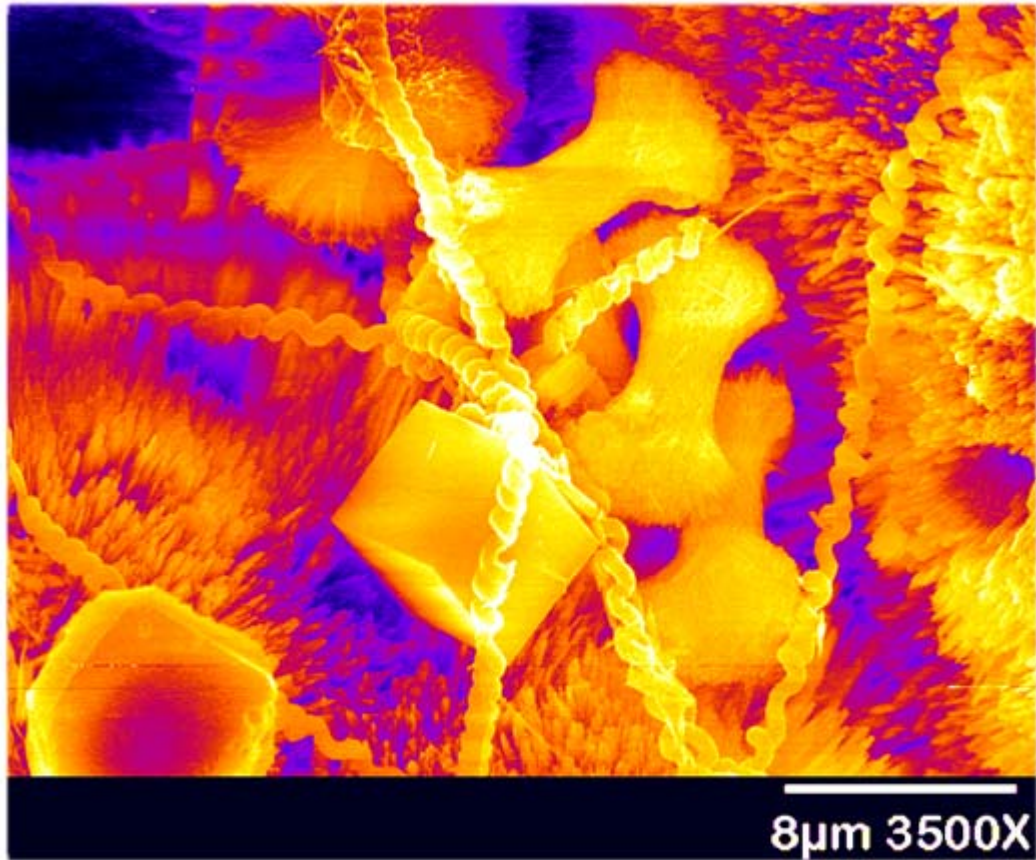


Figure 3. Wall rock morphology in Ten Bay Cave, Eleuthera considered by many to be the diagnostic of hypogene cave development, but existing here in a flank margin cave.



MISSISSIPPI STATE UNIVERSITY

NEWS

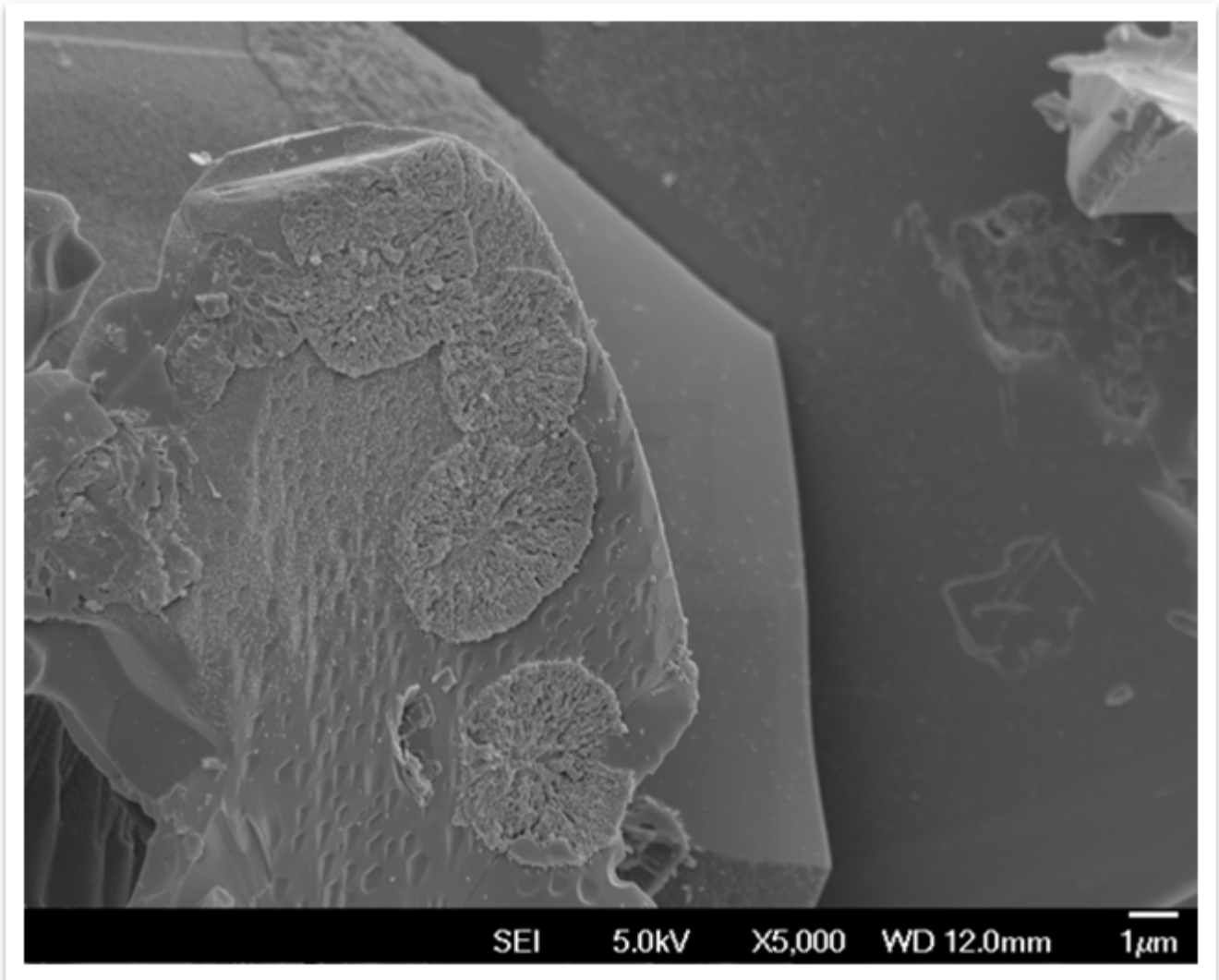


SEM image. Sample taken from a hot spring in Viterbo, Italy. Fuzzy dumbbells and needles are aragonite botryoids. The crystal in the middle looks like dolomite and is covered in spirulina, a type of cyanophyte, a sulphate reducing bacteria. Photo by R.L Folk and F.L Lynch. Photo courtesy Brenda Kirkland.



MISSISSIPPI STATE UNIVERSITY

NEWS



SEM image of either a calcite or feldspar crystal with pock marks showing a regular pattern. The lily pad shaped crystals on top appears to be either pyrite or gypsum. Image taken by Michael Brooke.



MISSISSIPPI STATE UNIVERSITY

ROCK HUMOR

Rock Humor

A geologist is the only person who can talk to a woman and use the words "dike" "thrust" "bed" "orogeny" "cleavage" and "subduction" in the same sentence without facing a civil suit. Are you a rockhound or rockhead? Test your knowledge of mineral and rock names by putting one of the names listed below into each blank.

1. The geologist played poker, but wound up losing his _____.
2. The bar where mineralogists break the Ten Commandments is called the _____.
3. If we _____ rocks, we'll all lose our teeth.
4. There are four _____ to the gallon.
5. "What shall we give Mike?" "Let's give _____ new mineral for his collection!"
6. Fracture of the _____ column usually results in paralysis.
7. All of the talkative geology students were put in one row, soon christened the "_____".
8. When Fred Zir was swindled of his jewels, it was called the Great _____.
9. You sent her flowers? What a _____ thing to do.
10. If I don't get this _____, when someone walks in he'll fall through to the basement.
11. The mineral that is the very symbol of hunger. _____
12. The con man tried to _____ mineralogists with a fake ruby, but he got caught.
13. At the circus, a clown threw a fake rock at another and got a _____ in his face.
14. Put Nick's book _____ shelf where it belongs.
15. A baseball player's favorite gem. _____
16. If a rube is a type of hick, does it follow that hickeys are _____?
17. Says one hip geologist to another, "Hey, that's really _____ man."
18. How to insult a geologist: look into his ear and say, " _____ "
19. If you drop a rock on your foot while in polite company, you should say " _____ all!"
20. Of all things, we must never take rocks for _____.

- ...
a) Albite f) Diamond k) Gneiss p) Quartz
b) Apatite g) Fluorite l) Gypsum q) Rubies
c) Chert h) Gabbro m) Mica r) Scheelite
d) Cinnabar i) Garnet n) Onyx s) Spinel
e) Coal j) Granite o) Pyrite t) Zircon
-----...



GRADUATE STUDENTS

The following is a preliminary list of current graduate students and their thesis work. I would encourage you to offer your knowledge and expertise and help our future geologists gain the experience they need as they move forward in their careers.

Name: David Luke Thompson

Email: dlt168@msstate.edu

Phone: 601-750-5497

Career Goal: mining industries and/or economic geology industries

Thesis Title: "Stratigraphy, Environments of Deposition, and Mineralogical Characterization of Heavy Minerals from Selected Cretaceous Formations of the Northern Mississippi Embayment"

Name: Ryan Travis

Email: rtravis1123@gmail.com and rwt85@msstate.edu

Phone: [214-796-2443](tel:214-796-2443)

Career Goal: Hydrocarbon Industry

Thesis Title: Void Collapse as Related to Dissolution Megaporosity.

I am developing new collapse equations, based off of Loucks' (1999) Cave Collapse Model, to better understand and model paleokarst reservoirs.

I am also working on an ongoing research project with Dr. Jon Sumrall utilizing petrographic and geochemical tools to understand the diagenetic history of a paleosol collapse breccia on Aruba.

Name: Michael Brooke

Phone: 601-594-6309

Email: jmb374@msstate.edu

Thesis Title: A Sequence Stratigraphy of the Haynesville/ Bossier interval in Jefferson County, MS using SEM analysis. Interested in someone who has worked in the newer shale plays. Also information about the Burkley-Phillips #1 well will be greatly appreciated.

Name: Natalie Odegaarden

Phone: 601-826-3903

Email: nao23@msstate.edu and napsamai@yahoo.com

I would like to focus my thesis on the Smackover Formation in the Jay Field. I need help locating a core and logs in order to perform correlation, sequence stratigraphy, depositional environment and thin section analysis to name a few.

Name: Claire E. Babineaux

Email: ceb445@msstate.edu and clairegeobx@gmail.com

Thesis Title: Glass cullet as an alternative aggregate for beaches: an ecological compatibility and public opinion survey. Area of research: Coastal processes-- The research I do focuses on the ecological compatibility of glass cullet to natural beach sand. I will simulate a natural beach environment and determine what grows naturally on sand. Then I will simulate a beach environment in which the composition is 100% glass cullet and determine what will grow naturally on the glass cullet as compared to natural sand. During this process, I will also be monitoring how coastal grasses and native biota within each of the simulated environments in order to determine whether it is affected. Sample will be taken and analyzed using microscopes and SEM. I will also be doing a public opinion survey to determine whether the general public will accept glass on the beaches in areas in which they live or visit in Mississippi.

Name: Courtney Killian

Email: ck695@msstate.edu

Phone: 724-549-3544

My thesis will be geared towards hydrology, groundwater and surface water interactions.



GEOLOGY POST

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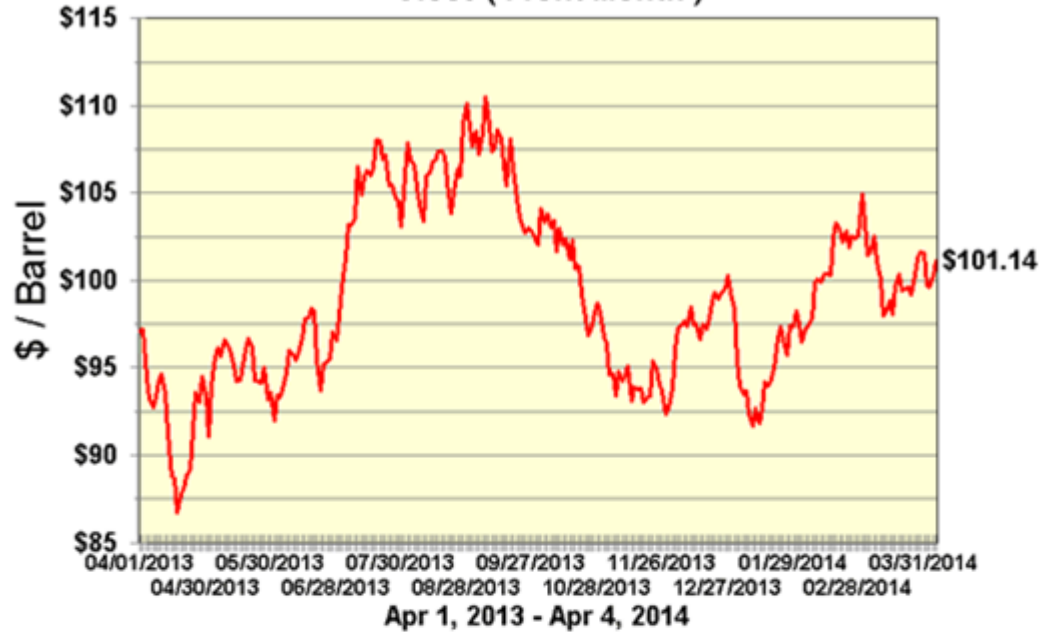
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