

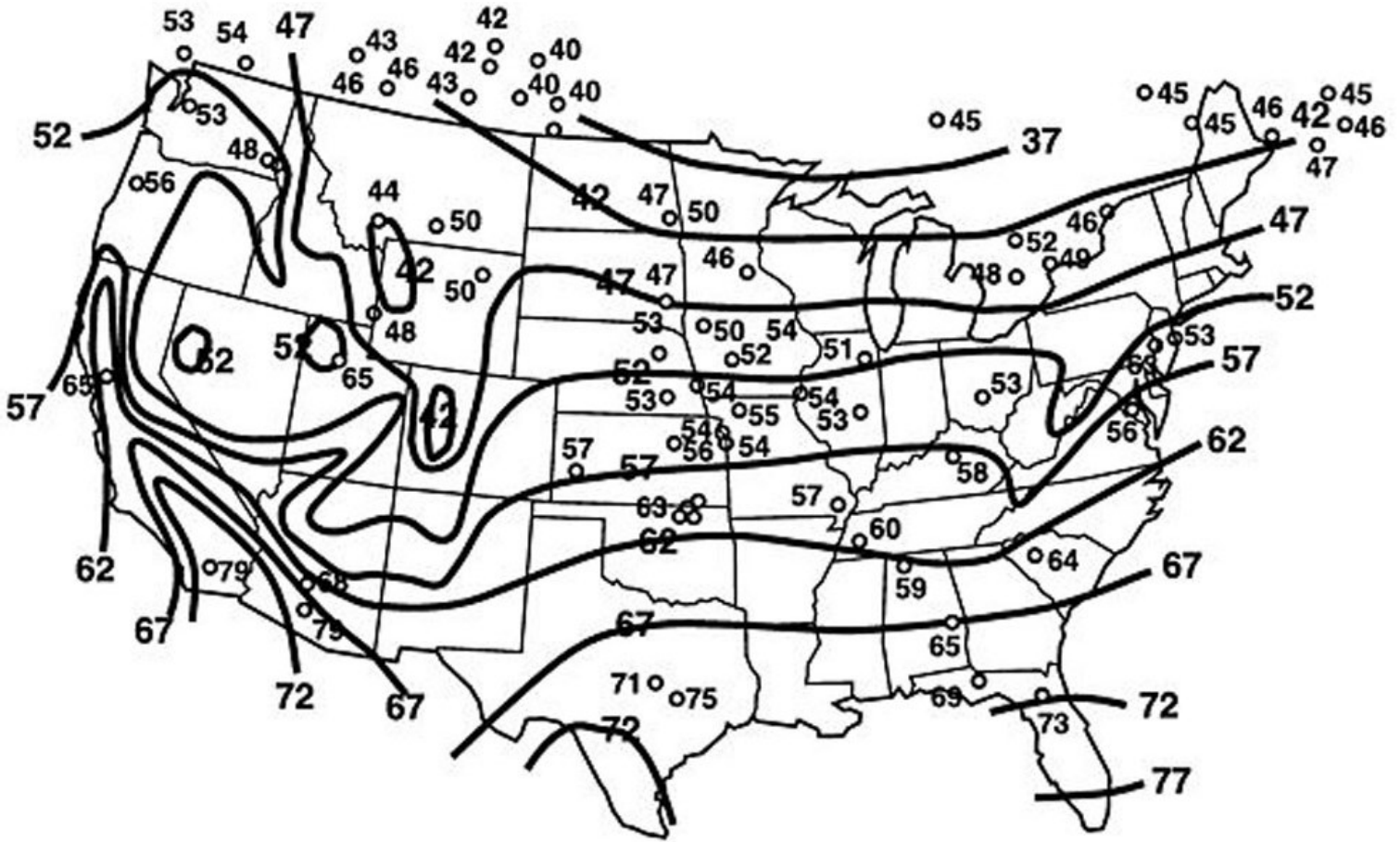
MISSISSIPPI GEOLOGICAL SOCIETY

# eBULLETIN

Volume 66

No. 6

February 2018



## **APPLYING GEOLOGY TO ENVIRONMENTAL ISSUES**

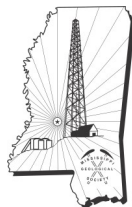
**Dr. David T. Dockery III, RPG, Office of Geology**

## **2018 JACKSON MISSISSIPPI WATER CRISIS**

**Dr. David T. Dockery III, RPG, Office of Geology**

## **SENIOR GEOPHYSICIST/GEOLOGIST**

**Weyerhaeuser - Job Opportunity**



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# PRESIDENT'S LETTER

*David Hancock*



I know some of our members will be in Houston this week for NAPE. If you're not at NAPE, try to make it to our Thursday MGS meeting. Dr. David Dockery will be our speaker. His topic, "Applying Geology to Environmental Issues" will be interesting and informative. David, next years MGS president, is Director of MDEQ's Office of Geology and State Geologist. He has also authored two recent books on Mississippi geology.

I want to thank everyone that attended last months meeting. Ezat gave his usual outstanding talk, making us all think a little out of the box. We also sent Howard Patton off into retirement on a high note. We had a great crowd and many of Howard's coworkers and friends from New Orleans, Houston and Jackson, were present. We got a heartfelt note from SEI and a nice donation to MGS in Howard's name.

For those of you that will be at NAPE, good luck selling your prospects! Hopefully the atmosphere will be improved from the last few years. Safe travels. To everyone else, see you Thursday.

# 2017-2018 MGS MEETING SCHEDULE

When	What/Who	Where
September 14, 2017	Fall BBQ	Jackson Yacht Club-5:30pm
October 12, 2017	EZAT HEYDARI The Last Delta on Mars	River Hills – 11:30am
November 7, 2017	Todd Kiefer Update: Energy & Power: Global Influences	River Hills – 11:30am
December 25, 2017	Merry Christmas	
January 11, 2018	EZAT HEYDARI The Cause and Consequences of the End-Permian	River Hills – 11:30am
<b>February 8, 2018</b>	<b>Dr. David T Dockery III, RPG</b> <b>Applying Geology to Environmental Issues</b>	<b>River Hills – 11:30am</b>
March 8, 2018	TBD	River Hills – 11:30am
April 12, 2018	Boland Scholarship Awards	River Hills – 11:30am
May 10, 2017	Spring Fling	Jackson Yacht Club– 5:30pm

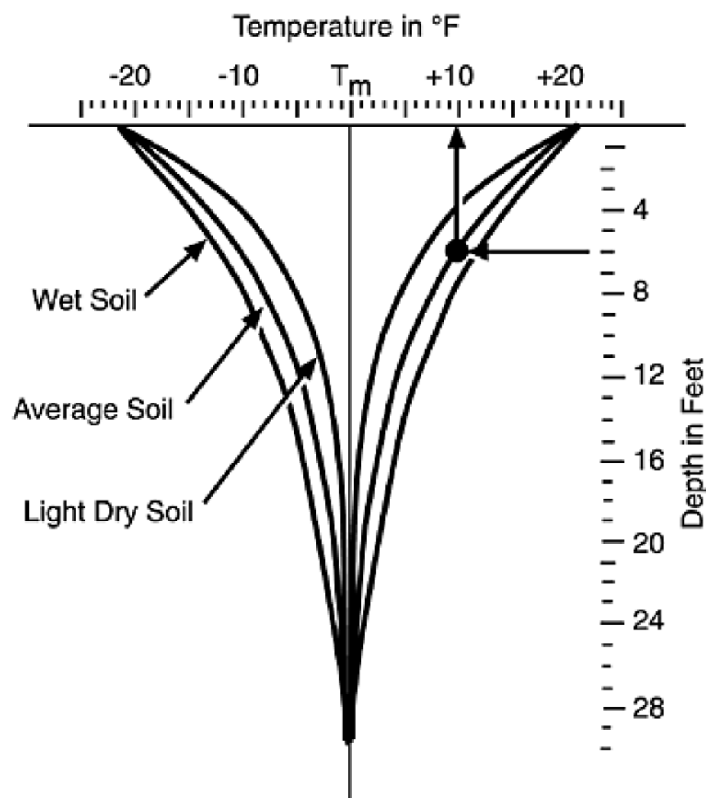


Figure 5. Amplitude of seasonal soil temperature change as a function of depth below ground surface.

## OFFICERS MEETINGS

September 12, 2017
October 10, 2017
November 6, 2017
January 9, 2018
<b>February 6, 2018</b>
March 6, 2018
April 10, 2018
May 8, 2018



# **MGS FEBRUARY SPEAKER**

*Dr. David Dockery III, RPG*



## **Applying Geology to Environmental Issues**

**Dr. David T. Dockery III, RPG**

Bio: Native of Jackson, MS. BS in Geology from Mississippi State University, MS in geology from the University of Mississippi, PhD in Paleontology from Tulane University with one year of study at Duke University. Worked as summer help with the Mississippi Geological Survey from 1969 to 1977 as a geologist student/drillers helper for the Rankin County, Smith County, and Wayne County geology bulletins. Published first book as a summer helper in 1977, a bulletin on the molluscan fossils of the Moodys Branch Formation, and eventually published a total of five such monographic bulletins. Worked as Director of the Surface Geology Division of the Mississippi Geological Survey/MDEQ Office of Geology from 1978-2017. In July of 2017, I was appointed as Director of MDEQ's Office of Geology and State Geologist. Two recent books with coauthor David Thompson are *The Geology of Mississippi* and *Mississippi Environmental Geology*.



# MONTHLY POST

*Dr. David T. Dockery III RPG*

## 2018 JACKSON WATER CRISIS

In 2010, after cold weather, some 154 water-main breaks, and loss of water pressure in downtown Jackson, Jessica Larche with FOX News called for an interview on Jackson's water main breaks and the Yazoo Clay (an interview coordinated with PR Director Robbie Wilbur) on February 4, 2010. I searched for mechanisms in which freezing soil water could cause the Yazoo Clay to shift. In discussing the issue with geotechnical engineer Eddie Templeton of Burns, Cooley, and Dennis and with engineers with Clinton Public Works, I was told that cold surface water going through Jackson's pipes caused the pipes to shrink and break. Charts showing the depth of frozen soil in severe US winters placed the depth of freezing at only 5 inches at Jackson, Mississippi (Figure 1), not enough to impact pipes buried at depths of 4 to 6 feet.

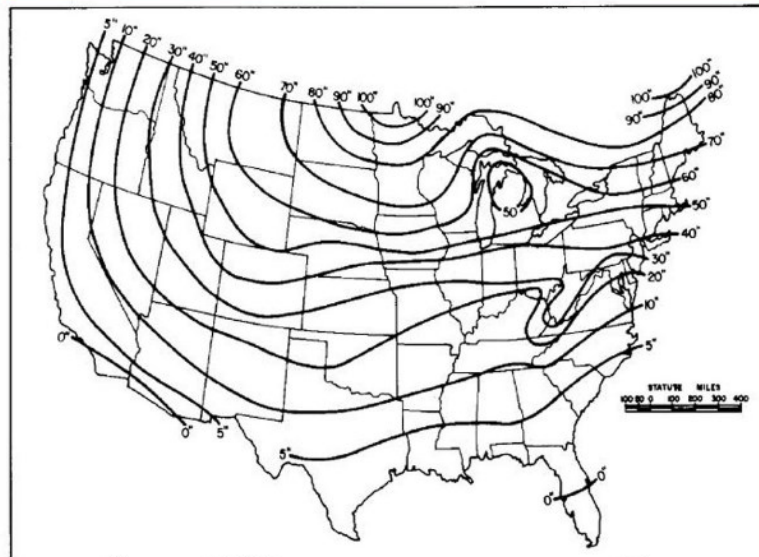
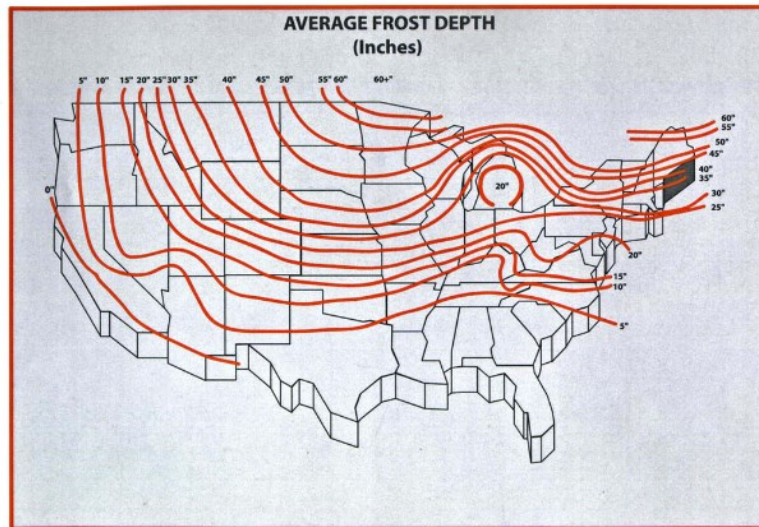


Figure 1, Top, average frost depth in inches; bottom, extreme frost penetration in inches based upon state average.



# MONTHLY POST

## *Dr. David T. Dockery III RPG*

So that is what I told Jessica Larche in an interview attended by Robbie Wilbur and Michael Bograd on February 19, 2010. From this interview, an article was published on the subject in the August 2010 issue of MDEQ's newsletter *Environmental News*, showing the city's water main breaks to occur after reservoir water cooled to 3 degrees C or 37 degrees F, a temperature documented from a weather station in the middle of the reservoir (figures 2-3).

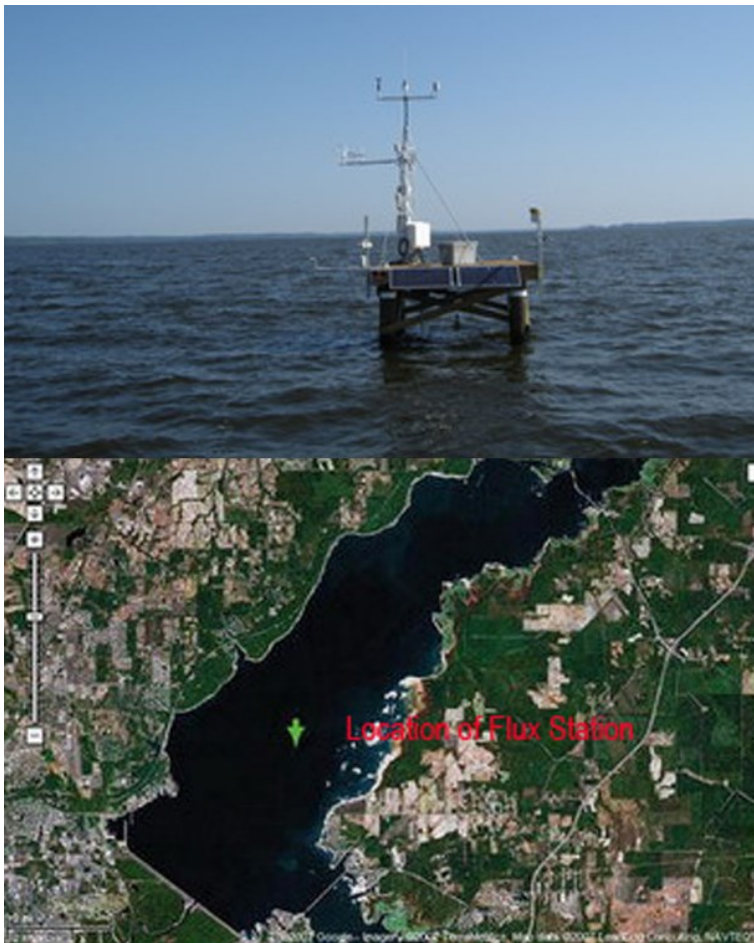


Figure 2. Top, the Ross Barnett Reservoir Flux Station, previously operated by the Micrometeorology Laboratory at Jackson State University in collaboration with the Pearl River Valley Water Supply District and now monitored by the Jackson Weather Service; Bottom, location of the station within the reservoir.

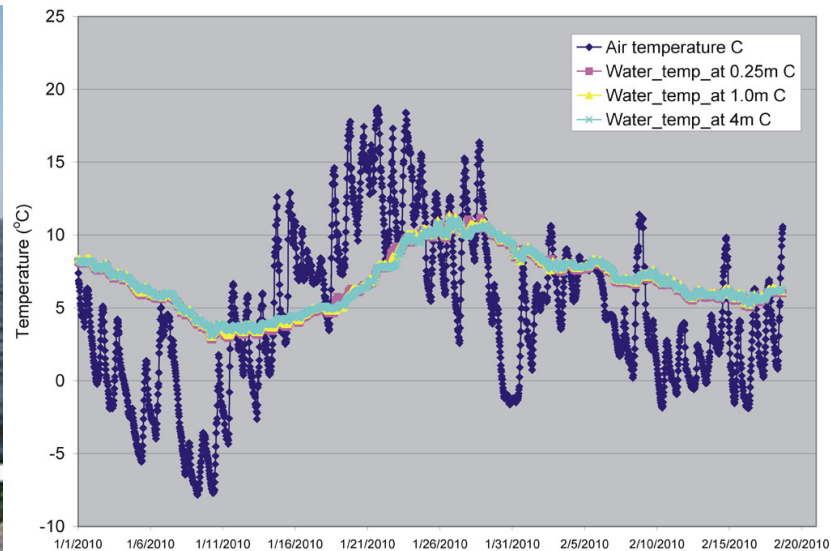


Figure 3. Air temperature in dark blue and water temperature in light blue (at 4 meters depth), yellow (at 1 meter depth) and purple (at 0.25 meter depth) in degrees centigrade (C). Record from the Ross Barnett Reservoir Flux Station from January 1 to February 20, 2010.



# MONTHLY POST

## *Dr. David T. Dockery III RPG*

In January of 2018, after a high of only 30 degrees and low of 17 degree F on the 1<sup>st</sup> and a high of 35 and low of 14 degrees on the 2<sup>nd</sup>, water mains began breaking in north Jackson, followed the next day by water main breaks in south Jackson. According to the Jackson Weather Service, reservoir water fell to a low of 2.9 degrees C in the early morning of January 3<sup>rd</sup>. State Offices were closed due to lack of water pressure. On January 19, 2018, WJTV 12 News anchor Melanie Christopher called for an interview on the water crisis, which was scheduled through MDEQ PR for January 23. Though there was no initial phone interview, Christopher revealed some of her questions, including, "If cold water from the reservoir is breaking water mains in Jackson, why aren't the water mains breaking in Cleveland, Ohio, which gets water from Lake Erie." In checking on that question, I found this, "Extreme cold triggers more than a dozen Cleveland water main breaks," posted by Chris Anderson, January 2, 2018, 4:46 am. So cold water was breaking water mains in Cleveland (also in Detroit, Michigan, which gets water from the Detroit River and Lake Huron).

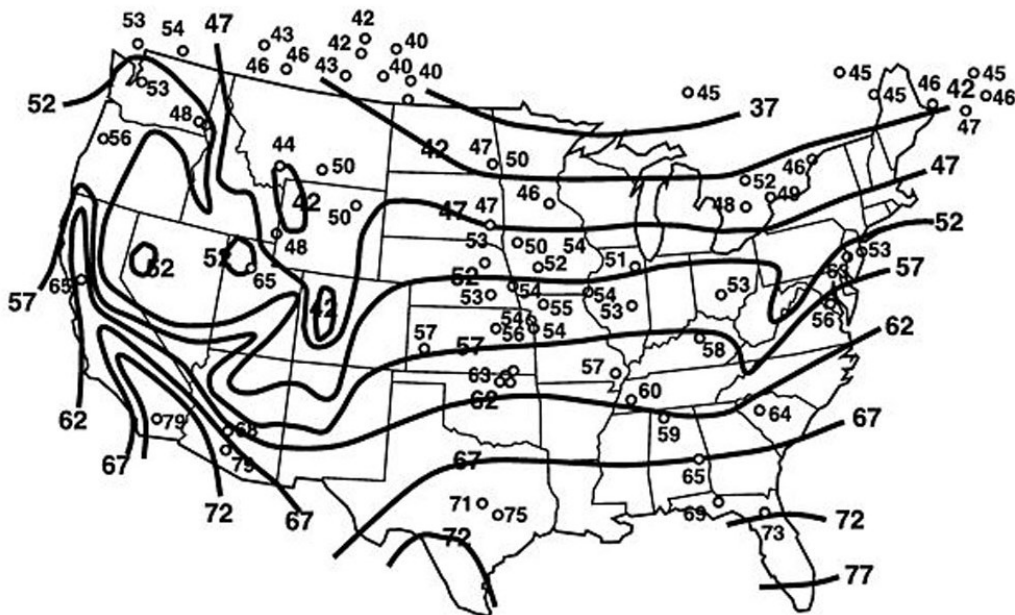


Figure 4. Mean annual earth temperature observations at individual stations superimposed on well-water temperature contours. At soil depths greater than 30 feet below the surface, the soil temperature is relatively constant, and corresponds roughly to the water temperature measured in groundwater wells 30 to 50 feet deep.

Figure 4 is a contour map of Mean Earth Temperatures in the US. At a depth of 30 feet, the ground temperature is constant year round.





# MONTHLY POST

## *Dr. David T. Dockery III RPG*

At a depth of 6 feet, the ground temperature may vary 10 degrees F colder or warmer than the mean earth temperature (Figure 5). The mean earth temperature in the Great Lakes region is around 47 degrees F. The mean earth temperature at Jackson, Mississippi is 67 degrees F, some 20 degrees warmer. As water freezes at 32 degrees F in both areas, Jackson experiences a much greater swing in water temperatures. If 37-degree F water at 10 degrees below mean earth temperature is breaking pipes in Cleveland, then 37-degree water should really be breaking pipes in Jackson at 30 degrees below mean earth temperature. At a temperature increase of 30 degrees C, a 10-meter-long steel water pipe will expand 4 mm. The increase with additional footage of pipe is not linear; a 300-meter steel pipe will expand 105 mm. PVC pipe expands even more with a 300-meter pipe expanding 1,800 mm. A water temperature of 30 degrees F is roughly equivalent to 15 degrees C, so cutting the expansion in half, a 984-foot-long (=300 meters) steel water pipe would expand 52.5 mm or 2 inches. Working backwards, a 984-foot-long steel water pipe would shrink 2 inches if cooled by 30 degrees F. All the pipes in the City of Jackson are thus pulling against each other with this shrinkage.

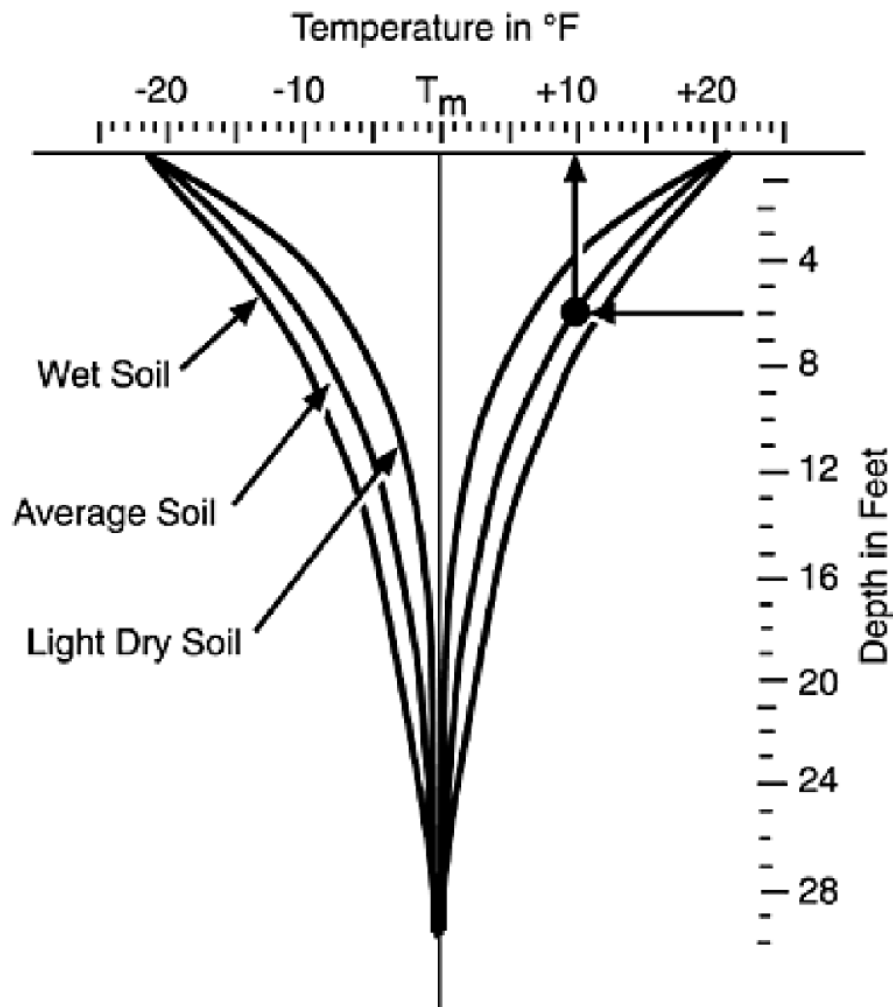


Figure 5. Amplitude of seasonal soil temperature change as a function of depth below ground surface.



## MONTHLY POST

### *Dr. David T. Dockery III RPG*

Figure 6 is a picture of the WJTV 12 News interview taken by Robbie Wilbur.

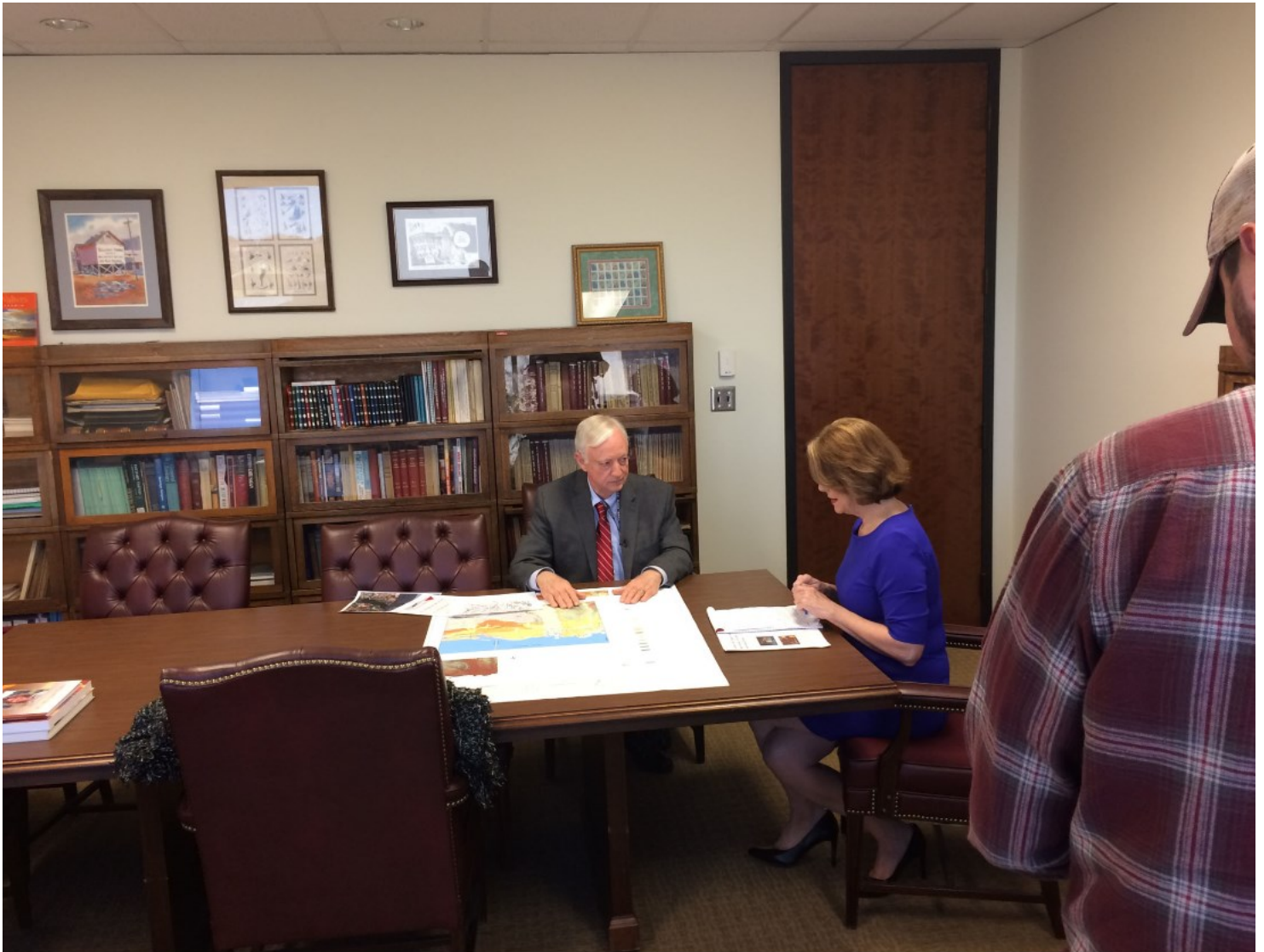


Figure 6. WAPT 12 News interview on January 23, 2018, with Melanie Christopher. Picture by Robbie Wilbur.



# CURRENT PRICES

## CRUDE OIL

OPEN  
**\$ 63.94**  
▼ -0.21 -0.33%

Last Updated: Feb 6, 2018 at 10:24 a.m. EST  
- Delayed quote

SETTLEMENT PRICE 02/05/18

**\$64.15**



## NATURAL GAS

OPEN  
**\$ 2.723**  
▼ -0.024 -0.87%

Last Updated: Feb 6, 2018 at 10:25 a.m. EST  
- Delayed quote

SETTLEMENT PRICE 02/05/18

**\$2.747**



Source: MarketWatch





# JOB OPPORTUNITIES



## Senior Geophysicist-Geologist-01011916

### Description

Do you have a passion for oil and gas exploration in a variety of geographies, and a desire to live in the Pacific Northwest? As a Senior Geophysicist - Geologist located at Weyerhaeuser's Seattle Headquarters, your primary responsibility will be oil and gas prospect generation and marketing on Weyerhaeuser's 13 million mineral acres, underlying our timberlands, in the continental United States.

In this role, you will have access to an extensive database of 3D and 2D seismic data, along with a sizeable geologic database. You will work with our Senior Reservoir Engineer and Land Manager to generate prospects and promote drilling activity, primarily in the North Louisiana Salt Basin and Gulf Coast regions. This role will require a high degree of proficiency with the preparation of prospect marketing packages, and with presentations to a wide variety of oil and gas companies and conventions. This position will also have the responsibility to assess oil and gas potential in a wide variety of geologic terrains, and to support real estate and timberlands divestitures and acquisitions. This role will require you to use strong interpersonal, communication, and conflict resolution skills as you work to create strategic plans and meet financial objectives for your areas of responsibility.

At Weyerhaeuser we believe trees are a remarkable resource that can, and should, be managed responsibly to make a range of products that meet human needs, while also providing recreation, wildlife habitat, and other important ecosystem benefits. For more than a century, we've been building our reputation as a leader in sustainable forest products.

### Roles & Responsibilities

- Generates oil and gas prospects on Weyerhaeuser lands using our extensive geophysical and geologic data bases.
- Responsible for preparation of marketing displays and prospect presentations, in close collaboration with Oil and Gas Team.
- Collaborates with the Oil and Gas Team to identify potential industry partners, and to promote exploration activity.
- Responsible for expert prospect presentation and promotion to a wide variety of oil and gas companies, investors, and management.
- Responsible for geologic and geophysical evaluation of oil and gas lease offers, in partnership with the Senior Reservoir Engineer and Land Manager.
- Responsible for geologic assessment of oil and gas potential on all Weyerhaeuser lands, including recommendations regarding acquisitions and divestitures.
- Collaborates with Operations Team in evaluating performance and compliance with lease contracts.
- Partners with the Oil and Gas Team for the creation of annual budgets and strategic plans.
- Manages and maintains, along with support staff, extensive geophysical and geologic data sets.
- Responsible for the attainment of annual leasing goals and financial objectives within area of responsibility.
- Displays strong excellent interpersonal, communication and conflict resolution skills.
- Reports to Director, Oil and Gas, Energy and Natural Resources.

### Qualifications

- **Experience:** Ten or more years of experience in the upstream oil and gas industry, with an emphasis on prospect generation and marketing in the North Louisiana Salt and Gulf Coast Basins. Strong geophysical interpretation skills are a prerequisite for this position.
- **Education:** Bachelor's degree (master's degree preferred) in geophysics (or geology with an emphasis in geophysics).
- **Technical Skills:** Ten or more years' experience in prospect generation and marketing. Full working knowledge of Kingdom geophysical software, including attribute analysis, and Petra geologic software is required. Candidates with expertise in salt tectonics will receive preferential consideration.
- **Drive:** We are looking for someone who is eager to learn, engage with subject matter experts, and look for opportunities to improve processes while applying technical expertise to ensure customer needs are met.
- **Communication:** Strong communication and interpersonal skills are essential for working effectively with a diverse set of internal and external clients.

### About Weyerhaeuser

We sustainably manage forests and manufacture products that make the world a better place. We're serious about safety, driven to achieve excellence, and proud of what we do. With multiple business lines in locations across North America, we offer a range of exciting career opportunities for smart, talented people who are passionate about making a difference.

**We know you have a choice in your career. We want you to choose us.**



# BOLAND SCHOLARSHIP WATCH

Faculty & Students,

This is a new year and the Mississippi Geological Society along with the Boland Scholarship Fund would like to remind you that we want to honor the most outstanding overall students for the 2017-2018 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.

We look forward to a great year and hope to see you at our monthly meetings.

Best Regards,

Matt Caton  
Editor



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# GEOLOGY POST

## ARTICLES, PAPERS or NEWS?

**ATTENTION!!!!!!** Industry, Professors and Students:

I am adding a dedicated section that includes more content from the industry and our schools.

Submissions can include anything from professional papers, thesis abstracts, job opportunities to pictures. Anything!!!!

If you have any information or news you would like to share with the Society **PLEASE** email them to the MGS Editor at:

[mcaton@tellusoperating.com](mailto:mcaton@tellusoperating.com)

Thanks & Regards,

Matt Caton  
Editor



# **2017-2018 BOLAND FUND DONATIONS**

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Charlie Morrison  
Tony Stuart  
Dave Cate  
Bob Schneeflock  
Alvin Byrd  
SEI - Howard Patton**

Thanks for your generous donations to the 2017-2018 Boland Fund

# GEO LINK POST

**USGS TAPESTRY OF TIME AND TERRAIN** <http://tapestry.usgs.gov> The CCGS is donating to all of the 5th and 6th grade schools in the Coastal Bend. Check it out—it is a spectacular map. You might want a framed one for your own office. The one in my office has glass and a metal frame, and it cost \$400 and it does not look as good as the ones we are giving to the schools. Call Owen 510-6224 if you want one for your office for \$150. Duncan, Mike, Chris, Dave, Bob Randy, Seb., Kevin, Ken, Craig, Patrick, Robert.

**FREE TEXAS TOPO'S** <http://www.tnris.state.tx.us/digital.htm> these are TIFF files from your state government that can be downloaded and printed. You can add them to SMT by converting them first in Globalmapper. Other digital data as well.

**FREE NATIONAL TOPO'S** [http://store.usgs.gov/b2c\\_usgs/b2c/start/\(xcm=r3standardpitrex\\_prd\)/.do](http://store.usgs.gov/b2c_usgs/b2c/start/(xcm=r3standardpitrex_prd)/.do) go to this webpage and look on the extreme right side to the box titled TOPO MAPS DOWNLOAD TOPO MAPS FREE.

<http://www.geographynetwork.com/> Go here and try their top 5 map services. My favorite is 'USGS Elevation Date.' Zoom in on your favorite places and see great shaded relief images. One of my favorites is the Great Sand Dunes National Park in south central Colorado. Nice Dunes.

<http://antwrp.gsfc.nasa.gov/apod/astropix.html> Astronomy picture of the day — awesome. I click this page everyday.

<http://www.spacimaging.com/gallery/ioweek/iow.htm> Amazing satellite images. Check out the gallery.

<http://www.ngdc.noaa.gov/seg/topo/globegal.shtml> More great maps to share with kids and students.

[www.geo.org](http://www.geo.org) Don't forget we have our own web page.

<http://micro.magneet.fsu.edu/primer/java/scienceoptiscu/owersof10/>

<http://asterweb.jpl.nasa.gov/galery/default.htm> Great satellite images of volcanoes

<http://terra.nasa.gov/gallery/> More here

[www.ermapper.com](http://www.ermapper.com) They have a great free downloadable viewer for TIFF and other graphic files called ER Viewer.

[www.drillinginfo.com](http://www.drillinginfo.com) This is an incredible (subscription) well and completion data service for independents. Can be demo'ed for free.

<http://terrasrver.com/> Go here to download free aerial photo images that can be plotted under your digital land and well data. Images down to 1 meter resolution, searchable by Lat Long coordinate. Useful for resolving well location questions.

<http://www.fs.fed.us/gpnf/volcanocams/msh/> This is a live cam of Mt. St. Helens refreshed every 5 minutes. At the bottom are old videos of past eruptions in this cycle. It is worth a watch especially now.





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Membership year is June through May

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Boland Scholarship Fund Donation \$ \_\_\_\_\_ Total Amount Enclosed \$ \_\_\_\_\_

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1/2 Page Ad (6" x 4")	\$300	\$ _____
1/4 Page Ad (3" x 4")	\$200	\$ _____
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### II. Web Page Advertisements (www.missgeo.com):

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Front Page Sponsor (Banner Ad – limit of 5)	\$500	\$ _____
Second Page Banner Ad	\$250	\$ _____
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(Note: Please contact Steve Walkinshaw at (601) 607-3227 or mail@visionexploration.com for details concerning placing your ad on the MGS web site.)

**Total Remitted** \$ \_\_\_\_\_

Please make checks payable to the Mississippi Geological Society. If you have any questions, contact Matt Caton at (601) 898-7444 or mcaton@tellusoperating.com



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# MGS PAST PRESIDENTS

1939-1940	Henry N. Toler	1973-1974	Larry Walter
1940-1941	Urban B. Hughes	1974-1975	W. E. "Gene" Taylor
1941-1942	J. Tom McGlothlin	1975-1976	Jerry E. Zoble
1942-1943	Dave C. Harrell	1976-1977	P. David Cate
1943-1944	K. K. "Bob" Spooner	1977-1978	Sarah Childress
1944-1945	L. R. McFarland	1978-1979	Les Aultman
1945-1946	J. B. Story	1979-1980	Philip R. Reeves
1946-1947	Frederic F. Mellen	1980-1981	Marshall Kern
1947-1948	H. Lee Spyres	1981-1982	Stephen Oivanki
	Robert D. Sprague	1982- 1983	James W. "Buddy" Twiner
1948-1949	Robert D. Sprague	1983- 1984	Charles H. Williams
1949-1950	E. T. "'Mike" Monsour	1984- 1985	C. Kip Ferns
1950-1951	J. Tate Clark	1985-1986	Steven S. Walkinshaw
	Charles E. Buck	1986-1987	J. R. "'Bob" White
1951-1952	George W. Field	1987-1988	Harry Spooner
1952-1953	James L. Md11in, Jr.	1988-1989	Stanley King
1953-1954	Wilbur H. Knight	1989-1990	Stan Galicki
1954-1955	A. Ed Blanton	1990-1991	E. James Files, Jr.
1955-1956	Gilbert A. Talley	1991-1992	Stephen L. Ingram, Sr.
1956-1957	Ben Ploch	1992-1993	Michael Noone/Stanley King
1957-1958	Emil Monsour	1993-1994	Brian Sims
1958-1959	Charles Brown	1994-1995	C. W. "Neil" Barnes
1959-1960	M. F. Kirby	1995-1996	Lester Aultman
1960-1961	Rudy Ewing	1996-1997	Jack S. Moody
1961-1962	Xavier M. Franscogna	1997-1998	George B. Vockroth
1962-1963	Robert B. Ross	1998-1999	Rick L. Ericksen
1963-1964	William A. Skees	1999-2000	Stanley King
	Marvin Oxley	2000-2001	John C. Marble
1964-1965	James F. Bollman	2001-2002	Andrew T. Sylte
1965-1966	Sankey L. Blanton	2002-2003	Aaron Lasker
1966-1967	Alan Jackson	2003-2004	John G. Cox
1967-1968	Julius M. Ridgway	2004-2005	James E. Starnes
1968-1969	Edward D. Minihan	2005-2006	Todd Hines
1969-1970	Kevin E. Cahill	2006-2007	Bob Schneeflock
1970-1971	John Lancaster	2007-2008	Tony Stuart
1971-1972	Larry Boland	2008-2009	Lisa Ivshin
1972-1973	Charles Barton	2009-2010	Joe Johnson
		2010-2011	Brian Sims
		2011-2012	Stanley King
		2012-2013	Jim Files
		2013-2014	Neil Barnes
		2014-2015	Ezat Heydari
		2015-2016	Jack Moody
		2016-2017	Cragin Knox