

**THE SOUTHWEST SECTION  
OF THE  
AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS**

[www.southwestsection.org](http://www.southwestsection.org)

P.O. Box 1595  
Midland, TX 79702

**2014-2015 OFFICERS**

**PRESIDENT**

Jeff Ritchie (NTGS)  
Stephens Engineering  
P.O. Box 2249  
Wichita Falls, TX 76307  
Tel: (940) 723-2166  
[jritchie@sjoc.net](mailto:jritchie@sjoc.net)

**PRESIDENT-ELECT**

Darrell Mauldin (AGS)  
TravCon Exploration  
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Tel: (325) 677-4100  
[darrellm@travconexp.com](mailto:darrellm@travconexp.com)

**VICE PRESIDENT**

Nic Brissette (NTGS)  
Gunn Oil Company  
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Tel. (940) 723-5585  
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**PAST PRESIDENT**

David J. Entzminger (WTGS)  
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400 W. Illinois, Suite 1300  
Midland, TX 79701  
Tel. (432) 686-6741  
[Entzminger@whiting.com](mailto:Entzminger@whiting.com)

**SECRETARY**

Curtis D. Helms, Jr. (WTGS)  
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**Southwest Section  
American Association of Petroleum Geologists**

Noon, April 12, 2015

Wichita Falls Multi Purpose Events Center, Wichita Falls, TX  
(Lunch during Annual Meeting Short Course)

**Agenda**

Call to Order:	President	Jeff Ritchie
Introductions:		
Minutes:	January 5, 2015 Board Meeting	

All Reports should be emailed to all Board members and only questions or comments will be discussed during the meeting.

**Officer Reports:**

Treasurer:	Jessica Pontiff
Secretary:	Curtis Helms
Vice President:	Nic Brissette
President Elect:	Darrell Mauldin
President:	Jeff Ritchie
Past President:	David Entzminger
AAPG Advisory Council:	Robert Webster

**Committee Reports:**

Awards Committee:	Bruce Swartz
Bylaws Committee:	Darrell Mauldin
Continuing Education Committee:	Carolyn Easley
Loan Committee:	Jessica Pontiff
Scholarship and Grants Committee:	Charlotte Klenk
Imperial Barrel Award:	David Coddling
Nominating Committee:	David Entzminger
Website Committee:	Robert Nail

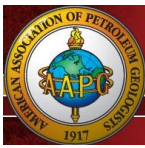
**Affiliated Society Reports:**

Abilene Geological Society:	Buford Salters
Dallas Geological Society:	Joe Davis
El Paso Geological Society:	Richard Langford
Fort Worth Geological Society:	Amy Patterson
Graham Geological Society:	
North Texas Geological Society:	Nic Brissette
Roswell Geological Society:	D'Neese Fly
San Angelo Geological Society:	Bruce Swartz
West Texas Geological Society:	Katy Benitez

Continued on Page 2

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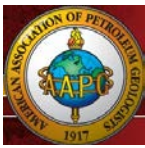
Noon, April 12, 2015  
Wichita Falls Multi Purpose Events Center, Wichita Falls, TX  
(Lunch during Annual Meeting Short Course)

**Agenda (Continued)**

Representative Reports:		
Young Professionals:		Joe Bauman
Student Chapters:		Sean Kimiagar or Garin Went
Division Reports:		
DPA Councilors:		Margo J. Liss
DEG Councilor:		Michael Jacobs
EMD Councilor:		Paul Thomas
Convention Reports:		
2015 Convention:	Status Update	Pete McElvain
2016 Convention:	Status Update	Darrell Mauldin
Ad Hoc Committee on Convention Rotation		David Entzminger
National AAPG News & Comments:		AAPG Rep
Website Status:		Robert Nail
AAPG – SWS Statistice and Information		Carol McGowen
Old Business:		
TBA		
New Business:		
Southwest Section Website		
Recognition of outgoing officers		
Next Board Meeting:		
TBD		
Adjourn:	Plan to be finished by 1:00 pm	

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**Treasurer Report**

April 4, 2015

As of March 23, 2015 our account was acquired by BB&T bank. A BB&T representative said checks written on the Citibank account will be honored until September 18, 2015. We recently received a new account number, so I will be ordering new checks from BB&T soon.

When the SWS account was sold to BB&T, Citibank did not transfer documentation of the authorized signers on the account, thus BB&T currently has no record of who is authorized on the account so no information could be provided over the phone. The BB&T representative has directed me to visit with the local branch in person to amend this issue (this is still pending – I have not had time to go to the branch during business hours since learning of this issue).

The checking account balance as of March 31, 2015 was \$169,068.34.

Income from January 1, 2015-March 31, 2015 includes checking account interest earned (\$20.84).

Checks/Expenses from January 1, 2015-March 31, 2015 (reflected in the balance above) include payment reimbursement to the January Short Course presenter (\$404.97), payment to Tendenci for the website June-December 2014 (\$1,170.00), and payments/donations made to Brookhaven College for the Imperial Barrel Competition totaling \$1,500.00.

Outstanding checks total \$10,519.58. Outstanding checks include, Scholarships totaling \$9,600.00 and payment to Stadium Sports for SWS awards in the amount of \$919.58.

\*\*\*

SWS income tax filing was due November 15, 2014. Ken Morrison (CPA in Midland) filed for an extension, until February 15, 2015 and has filed for an additional extension until May 15, 2015 (which was granted).

Respectfully submitted,

Jessica L. Pontiff, Treasurer

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**Southwest Section**  
**American Association of Petroleum Geologists**

SWS AAPG Meeting Minutes  
January 5, 2015  
Abilene Civic Center, Abilene, Texas

**Call to Order:** by President Jeff Ritchie at 11:40 AM CST

*Quorum was in attendance*

*See Attachment: (01) Agenda*

**Officer Attendees:**

Treasurer:	Jessica Pontiff
Secretary:	Curtis Helms, Jr.
Vice President:	Not Present
President Elect:	Darrell Mauldin
President:	Jeff Ritchie
Past President:	Not Present/Andrew Parker
AAPG Advisory Council:	Robert Webster

**Committee Attendees:**

Awards Committee:	Bruce Swartz
Bylaws Committee:	Darrell Mauldin
Continuing Education Committee:	Not Present
Loan Committee:	Jessica Pontiff
Scholarship and Grants Committee:	Charlotte Klenk
Imperial Barrel Award:	Not Present
Nominating Committee:	Not Present/Andrew Parker
Website Committee:	Not Present

**Affiliated Society Attendees:**

Abilene Geological Society:	Buford Salters
Dallas Geological Society:	Joe Davis
El Paso Geological Society:	Richard Langford
Fort Worth Geological Society:	Not Present
Graham Geological Society:	No Representative
North Texas Geological Society:	Peter McElvain
Roswell Geological Society:	Not Present
San Angelo Geological Society:	Bruce Swartz
West Teas Geological Society:	Not Present

**Others:**

EMD Councilor:	Paul Thomas
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**OFFICER REPORTS**

**Previous Meeting Minutes:**

**Curtis Helms, Jr.**

*See Attachment: (02) SWS Meeting Minutes 9.24.2014*

Motion to Accept: Jeff Ritchie

Second: Robert Webster

Status: Approved

**Treasurer Report:**

**Jessica Pontiff**

*See Attachments: (03) Treasurer Report, (04) Citi Bank Statements*

Beginning Balance as of 4/30/14: \$90,100.83

Previous Balance as of 9/20/14: \$97,108.74

Balance as of 1/4/15: \$172,122.47

Outstanding \$10,000 loan, Net: \$182,122.47

Profits from 2014 convention: \$75,443.75

**Deposits:**

Received profits from SWS Convention \$75,443.75 and interest earned \$25.73.

**Expenditures:**

Include payment for meeting room at the Midland Center for last board meeting \$150.00 and catering from Johnny's BBQ \$279.80 and new checks reflecting new account address P.O. Box \$25.95. Total expenses were \$455.75

**Other:**

SWS income tax filing is due Nov. 15, 2014, Ken Morrison CPA filed an extension until Feb. 15, 2015. Received invoice from Tendenci on Dec. 15, 2014 in amount of \$1,170.00 for software mgmt. payment due Jan. 14, 2015. Website still not working.

**Vice President Report:**

*No report.*

**Not Present**

**President Elect Report:**

*No report.*

Nothing to report

**Darrell Mauldin**

**President Report:**

*No report.*

Nothing to report

**Jeff Ritchie**

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**OFFICER REPORTS cont.**

**Past President Report:**

**David Entzminger – NA**

*See Attachments: (06) SWS AAPG Past-President's report*

Andrew Parker represented David and read his report. Encouraged continued support for student chapters and YP groups.  
Nominations – soliciting candidates for upcoming election

**AAPG Advisory Council Report:**

**Robert Webster**

*See Attachment: (07) Advisory Council Report*

Want to increase SWS representation in the list of national award candidates by nominating members from various local societies.

**COMMITTEE REPORTS**

**Awards Committee Report:**

**Bruce Swartz**

*No report*

Jeff Ritchie asked that if anyone had any recommendation from our local society to be nominated to send requests.

**Bylaws Committee Report:**

**Darrell Mauldin**

*No report*

**Continuing Education Committee Report:**

**Carolyn Easley – NA**

*No report*

**Loan Committee Report:**

**Jessica Pontiff**

*See Attachment: (03) Treasurer Report*

**Scholarship and Grants Committee Report:**

**Charlotte Klenk**

*No report*

Need to know how much money to spend

**Imperial Barrel Committee Report:**

**Jeff Jones – NA**

*No report*

David Codington taking over for Jeff Jones and \$9,500 has been approved by budget, Jessica to send check. Winner will go to National meet.

**Nominating Committee Report:**

**David Entzminger/Andrew Parker**

*See President Report: (06) SWS AAPG Past-President's report*

Nominating committee selected candidates and ballots should be mailed out in February 2015 and will have results in April 2015.

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### COMMITTEE REPORTS cont.

#### Website Committee Report:

*No report*

**Robert Nail - NA**

### AFFILIATE SOCIETY REPORTS

#### Abilene Geological Society:

*See Attachment: (08) AGS Report*

AGS has 176 members and society meets 8 times per year. Have an average of attendance of 53.

**Darrell Mauldin**

#### Dallas Geological Society:

*No report*

**Joe Davis – NA**

#### El Paso Geological Society:

*No report*

Society is trying to re-establish itself.

**Richard Langford**

#### Fort Worth Geological Society:

*No report*

**Chuck Blair – NA**

#### Graham Geological Society:

*No report*

**No Representative**

#### North Texas Geological Society:

*See Attachment: (09) AAPG SWS NTGS Report*

Jeff Ritchie read report. Meetings every third Thursday attendance 20-25. SWS meeting is progressing slowly will provide update.

**Nic Brisette – NA**

#### Roswell Geological Society:

*No report*

**D'Neese Fly – NA**

#### San Angelo Geological Society:

*No report*

Meeting regularly with the Geology Group at San Angelo State.

**Bruce Swartz**

#### West Texas Geological Society:

*No report*

**Katy Benitez – NA**

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**REPRESENTATIVE REPORTS**

**Young Professionals Report:**

*No report.*

**Joe Bauman – NA**

**Student Chapters:**

*No report.*

**Sean Kimiagar or Garin Went – NA**

**DIVISION REPORTS**

*Why does SWS not have a DEG or EMD Council – SWS is the only section without such council representatives. David Entzminger has made contact regarding this matter, but has received no response. David to follow up.*

**DPA Report:**

*No report*

**Margo Liss – NA**

**DEG Report:**

*No report.*

**Michael Jacobs - NA**

**EMD Report:**

*No report.*

**Paul Thomas**

Nothing to report.

**CONVENTION REPORTS**

**2014 Convention Report:**

*No report*

**Paul Pause – NA**

**2015 Convention:**

*See Attachment: (10) 2015 Convention ComReport*

**Pete McElvain**

Pete McElvain present spent the deposit for the facilities; mentioned biggest problem is filling the talks.

**2016 Convention:**

*No report*

**Darrell Mauldin**

Date 2016? in Abilene, Texas



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**OLD AND NEW BUSINESS**

**OLD BUSINESS:**

The Grants and Scholarship Committee will determine distribution formula for Student Presenters at 2015 SWS Annual Meeting. They will use the scores determined by the meeting Technical and Poster Judges.

**NEW BUSINESS:**

*Reference Attachment: (11) SWS Sponsorship 2015 Student Leadership Summit*

**Convention Schedule:**

2015 ;2016 Abilene; 2017 Midland; 2018 El Paso willing to co-host?; 2019 Dallas 100<sup>th</sup> meeting; 2020 Open; 2021 Ft worth; 2022 open; 2023 Wichita Falls; 2024

Worked on doing something with Midcontinent but didn't work out. May consider doing a technical-fieldtrip for 2020.

**Student Leadership Summit:**

Hosted in Oklahoma City, OK by Chesapeake Energy and the AAPG to be held in the Fall of 2015. From email responses it was a consensus it is a good program for the AAPG-SWS to participate in.

Jeff Ritchie made a motion that SWS commit up to \$100 per student from the schools in the section to be budgeted for the event 2015. **Motion accepted.**

**Meeting Adjourned: 1:05 PM**

**Next Meeting:**

April 12th, 2015 – 12:00 pm Wichita Falls, Texas at the SWS-AAPG Symposium in the Wichita Falls Multi-Purpose Events Center

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**2015 SWS Convention Committee Report**  
**April 10, 2015**

SWS Board Members,

Planning for the 2015 Southwest Section Convention, to be held in Wichita Falls April 11-14, is proceeding well.

Dr. Jonathon Price will be leading the convention field trip titled "The Wichita Mountains: A tour of Eocambrian rifting and Permian erosion" on Saturday, April 11. Dr. Price has done extensive work in the Wichitas and has put together a great trip with stops at a number of localities and lunch at the famous Meers Store. We allotted 50 seats on this trip and sold out during the last week leading up to the convention.

Also, we will be hosting the More Rocks in Your Head program local school teachers on Saturday, April 11. We expect to have 35 teachers participating.

The convention short course will be held on Sunday, April 12. The course will be titled "Borehole Imaging: From Acquisition to Interpretations" and presented by Schlumberger's Valentina Vallega. We expect 75-80 attendees at the short course. Afterwards, Craig Reynolds is putting together a first-class icebreaker with great food and music by the Mike O'Neill Band.

The technical session kicks off Monday, April 13. Technical Chairman Dr. Scott Meddaugh has put together a great program with 23 oral presentations, 10 posters, and a keynote by Lou Mazzullo.

Our luncheon speakers will be Marita Noon of Citizens Alliance for Responsible Energy on Monday and Mike Oestmann of Tall City Exploration for the DPA Luncheon on Tuesday. A Monday evening social event will be held at Bob and Ann Osborne's locally-famous estate. Rib dinner by The Mavericks, dancing to Prairie Moon, and trolley tours of the historic Country Club estates will make for a very entertaining evening.

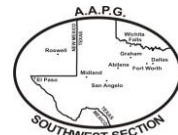
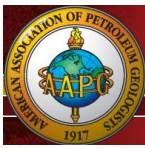
We expect to have 28 exhibitors present. Jeff Ritchie and Jim Tull did an excellent job getting the exhibit hall filled up.

As of this time, we are expecting approximately 250 total attendees including 132 professional registrations, 57 exhibitors, 29 students and 29 guests. Gross registration income is expected to be over \$36,000. We received approximately \$20,999 in corporate sponsorships, and \$17,640 in exhibitor booth fees. Of course, final income and expense numbers will be changing as we get everything tabulated.

Respectfully submitted,  
Pete McElvain, 2015 SWS Convention General Chairman

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**Southwest Section  
American Association of Petroleum Geologists**

Noon, April 12, 2015

Wichita Falls Multi Purpose Events Center, Wichita Falls, TX  
(Lunch during Annual Meeting Short Course)

**President Elect's and Chairman of By-Laws Committee  
Report:**

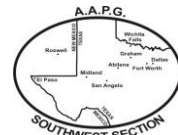
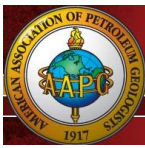
As President Elect, I have nothing to report.

As Chairman of the By-Laws Committee, I have nothing to report. There have been no changes to the By-Laws, since the last board meeting.

Darrell Mauldin  
President-Elect, SWS AAPG

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**Past-President & Nomination Reports  
April 2015**

As Past-President, I continue to support and encourage the AAPG Student groups and faculty. I serve as the SWS representative to the Visiting Geoscientist Program. This program provides geoscience speakers to schools in our section. If you are interested in this program let me know.

Thank you for all those that ran for SWS AAPG board positions. Your involvement is appreciated. The elections results are:

**President Elect:**

Mike Raines WTGS

**Vice President:**

Rebecca Dodge North TX

**Secretary:**

Amy Patterson Ft Worth YP

Respectfully submitted,

David J. Entzminger  
Past President

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**Southwest Section  
American Association of Petroleum Geologists**

**Young Professionals Report  
April 12, 2015**

Joe Bauman will succeed Nikki Morris as the Southwest Section YP Lead and will serve a 3-year term, which formally begins in June 2015.

AAPG YP conference call was held March 30. Southwest Section has majority of YP funds remaining. Funds need to be used by June 2015.

**DGS YPs:**

- YP Chair Mandi Guerrero submitted article, “Riding out the Bust” for April issue of AAPG Explorer.
- DGS YP organized this year’s Crawfish Boil, to be held April 16.
- A YPE/DGS YP joint event will be held April 23.
- Ranyah Kharwat will succeed Mandi Guerrero as DGS YP chair for 2015-2016.

**WTGS YPs:**

- Scheduled events (per January status report):
  - January 2015 – Indoor Volleyball/Fajita cookout, sponsored by Scal Inc
  - February – Jackalopes Hockey Night, sponsored by TBA
  - March – Chili Cookoff, sponsored by TBA
  - April – Mentor/Mentee Night, sponsored by WTGS
  - May – AAPG Conference??
- Current WTGS YP Chairs: Lauren Storm and Clayton Winkler
- Need status update from WTGS YP.

Regards,  
Joe Bauman, SWS YP Lead

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**2015 Southwest Section Honors and Awards Committee**

The Awards for the 2015 year are as follows:

John Emory Adams Award: Darrell Mauldin, Abilene

Monroe G. Cheney Science Award: Gregg Norman, Wichita Falls. For his extensive work on the Tannehill sand formation.

Distinguished Educator Award: Dr. Joe Satterfield Angelo State University.

TOTY: Ms. Katherine Hoover, Wylie ISD

A.L. Cox Award for best poster from 2014 convention:  
Richard C. Gessman.

For the Distinguished Educator Award there are three additional people that have been nominated that are deserving for consideration next year.

Dr. Matt Hornbaugh of SMU

Dr. David Blackwell SMU

Dr. Stacy Atchley Baylor

Dr. Richard (Rip) Langford UTEP

The other nominee for the Cheney Award is Rich Masterson of Midland.



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The TOTY nominee need our support as a Section. Included with my report is Ms. Hoover's Teaching Philosophy and a description of her curriculum. Please review this material and I believe you will agree with me that she is deserving of this award. Remember that the TOTY Award is a AAPG Foundation Award. As of now she only has the nomination in Tulsa. We as a Section need to support her with letters of recommendation. If you choose to support her I will make sure that it is received in Tulsa.

Bruce Swartz

## **Teaching Philosophy**

**Katherine Hoover**

If I had to put my teaching philosophy to one phrase, it would be “hands on, minds on”. It is true that the one who does the work does the learning. With this fact in mind, I try to offer many varied activities to my students in order to maximize opportunities for active learning and inquiry. In my classroom, as much as possible we “do science” and I constantly encourage students to want to do more science. Group learning is a strategy that I use frequently in my classroom as my students, high school seniors, are highly social and work well in small groups of 2-4 students.

I often make an effort to find out student misconceptions about a topic before we start a new unit. For example, students usually come into my classroom at the beginning of the school year believing that global warming is somehow responsible for the thinning of the ozone layer. I usually try to address that misconception at the beginning of our unit on the atmosphere so as to have a clean slate for new learning. I also try to continually change teaching practices to help students learn more effectively. Different students learn best in different manners so I try to vary the methods of instruction and the types of activities to give all students the best chance at learning effectively. I also think it is important to take advantage of “teachable moments”. Quite often either a question from a student or a recent news event will bring up questions that need to be discussed and answered. Curious students need their questions answered.

As a teacher of environmental science and AP environmental science I also feel a responsibility to graduate students who have a strong sense of stewardship for the environment. I have noticed that many of my students, high school seniors, really do not spend very much time outdoors. Today’s students have grown up in a plugged in world and spend much of their free time indoors in front of the TV or computer. Many of them have never been to a farm or a national park. There was a time when you did not have to tell kids to go outside and get dirty, but I often find my students are reluctant to touch dirt or put their hands or feet in a stream. Therefore, all of my students make regular trips out of doors to study ecosystems, collect samples or look at the sky. Field work is not only required for both of my courses, but is necessary to help students to gain an appreciation for the natural world. We are fortunate enough to have a fairly large pond on our campus. I developed a long term pond study for my AP classes which is now in its third year. I also applied for and received grant funding from Toshiba America Foundation to purchase equipment for the pond project. The project involves a trip down to the pond on a monthly basis to gather data and sample plant and macroinvertebrate populations. The repetitive nature of the project causes student engagement to be high as they become very invested in the pond and its inhabitants. Over time the students begin to refer to the pond as “our pond” or “our project”. They are able to observe changes in the flora and fauna throughout the year and begin to look forward to their monthly visit to the pond. (Last year’s



students even captured a few of those inhabitants and kept them as classroom pets until the end of the school year) Greater student engagement means more student learning.

I am also enthusiastic about the use of technology in the classroom and in putting technology in the hands of students. My students use the Vernier Labquest with probeware to gather data indoors or out. We use it monthly for our pond project as well as other labs that are spread out throughout the year. It is important to me that my students learn how to use real data to come to scientific conclusions. I also use GIS (geographic information systems) in my classroom on a regular basis to teach various topics. We also put all of our data from the pond project into a GIS program for evaluation at the end of the school year.

I am always looking for ways to improve my teaching of science, learn about new techniques or equipment and gain new science knowledge. I believe that professional development is an indispensable part of science teaching. Over the past few years I have participated in many high quality science professional development programs. For example, this past summer I traveled to Belize with Earth Expeditions and spent time studying the rainforest and marine environments there. I brought back hundreds of pictures and many stories as well as a new understanding of life in a developing country which I can share with my students. Also during this past summer I spent two weeks in Kansas City at the National Weather Service training center as part of the American Meteorological Society's "Project Atmosphere". During the summer of 2009 I was fortunate enough to be chosen to attend G-Camp, a program through Texas A&M University that teaches teachers about geology. We spent two weeks traveling through Texas, New Mexico, and Colorado visiting and learning about the geology of the region. I learned a lot of new information that has made the teaching of geology related topics easier for me and I took hundreds of pictures that are now in powerpoint presentations that I show to my students. From that trip I also brought back many rock samples for my students to examine. I also spent a week in a coal mine in East Texas (TMRA coal camp) I learned all about the process of coal mining, which I teach every year. I also visited a power plant and a reclamation area and came home with many activities and photographs that I still use today. I brought back samples of different types of coal for my students to see and touch. I also participated in a yearlong project called Coastlines that taught me how to use GIS in the classroom. It was during the two week summer institute associated with this program that I created the pond project that I still use. And during the summer of 2010 I spent a week on a 100 ft. dive boat in the Intercoastal Waterway to learn more about wetlands, and I spent a week at the University of Northern Iowa studying air quality. Professional development is an important part of a teaching career for me and I will continue to seek out quality programs to enhance my teaching.

## **Unit Description: Energy and the Environment**

### **Alternatives for the Future**

**By Katherine Hoover**

#### **Unit Objectives:**

The overall goal of this unit is to describe and compare renewable and non-renewable energy resources derived from natural and alternative sources such as oil, natural gas, coal, nuclear, solar, geothermal, hydroelectric, wind and biomass. There is particular emphasis on coal, since most of our electricity comes from coal-fired generating plants. Students will also be asked to evaluate the cost-benefit trade offs of commercial activities such as mining and will research the advantages and disadvantages of "going green" by looking at hybrid cars, fuel cells, and energy-efficient building techniques. The unit is designed for and taught to high school seniors enrolled in an environmental science class and is approximately three weeks in length.

#### **Day 1: Fossil Fuels**

To begin the unit the students will complete an energy use quiz to discover their current understandings and beliefs about various energy topics. The quiz asks students about their current gasoline usage (most drive), where they believe gasoline comes from. It also asks about their electricity usage and where they believe their electricity is coming from. Answers from the introductory quiz lead to a class discussion about energy use. Students are encouraged to share their opinions about their personal energy use and ways they can control the amount of fossil fuels they are responsible for burning.

Following the introductory quiz and discussion, students will listen and take notes during a short (15 min) lecture/discussion about energy and fossil fuels. The students will review the laws of thermodynamics as well as conduction, convection, and radiation. (As high school seniors, all students have already passed biology, chemistry, and physics). They will also review some of the units that are used such as joule, calorie, BTU, kilowatt hour, watt, and horsepower. Next, the unit will examine the ways in which fossil fuels, the power for our cars and most of our electricity, are formed. Fossil fuels were created millions of years ago from the remains of living organisms, buried in the sediment, and subjected to high pressures and temperatures to transform them into the compounds that we use for energy today. Students will learn that fossil fuels account for most of the world's current energy use and that, because of the length of time required for their creation, are effectively non-renewable. Students will also learn some history of man's use of fossil fuels and that from the time of the industrial revolution, our fossil fuel use has been increasing.

#### **Days 2,3,4,5 and 6: Coal**

Learning goals:

- 1.) The students will distinguish between different types of coal
- 2.) The students know how coal is formed and where it is found
- 3.) The students know the advantages and disadvantages of burning coal
- 4.) The students can explain different methods of coal mining
- 5.) The students can explain the process of reclamation

The second day begins with a short (15 minute) lecture/discussion to explain the types of coal. Students are shown four types of coal: lignite, sub-bituminous, bituminous, and anthracite. Students learn that coal is the most abundant of the fossil fuels and that the US has 25% of the world's coal. Students are also shown how coal forms in seams and that all of the coal in Texas is lignite.

Students are then divided into groups of 3-4 students. Each group is given three unmarked coal samples (lignite, bituminous, and anthracite), Moh's Hardness Scale, a mineral test kit and a coal ranking chart. The students will evaluate each sample with regard to color (black-brown), luster (shiny-dull), hardness (soft-hard-very hard), plant remains, and fractures (smooth-rough). The students will discover which sample is which by using the coal ranking chart supplied to them.

The next day class will begin with the students again divided into groups of 3-4 students. Each student is provided with a blank coal distribution map of the United States and an assortment of colored pencils. The class will then take some notes about the distribution of coal in the US and take part in a discussion of the paleogeographic history of coal deposits. The students, in cooperation with their groups, will be asked to predict the type of coal found in each of the coal fields on their maps based on its paleogeographic history. The students are asked to select a color for each type of coal and produce a key. The students are then shown the correct map so they can compare their groups decisions to the correct answers.

The day ends with a short (15 min) lecture about the types of mining and a slideshow from an actual working mine in Texas. Students will learn about strip mining or mountaintop removal types of mines where overburden is completely removed in order to access the coal seam. They will also learn about underground mining that takes place in other parts of the US. In Texas, all of our mines are surface strip mines and I was lucky enough to be chosen to spend a week in one of these mines. The students will see a slide show, prepared from my pictures, that explains the process of surface mining in Texas.

Day 4 of the unit begins with a discussion of the reclamation process. Reclamation is the process of restoring the land to the condition it was in before the land was mined and must be planned for before a mine is ever dug. Before mining begins, environmental specialists study the soil, plants, wildlife and water of an area to determine if it is suitable for mining. All coal mines must be reclaimed. The students will view another slide show that shows the reclamation process in various stages at a working mine in Longview, Texas.

Students will then participate in a lecture/discussion of the advantages and disadvantages of using coal for energy. Among the advantages of coal are that it is inexpensive compared to other fossil fuels, is still fairly easily accessible and easily transported. Its disadvantages include sulfur dioxide caused acid rain from the burning of coal, black lung disease in miners, non-renewable resource that will run out in about 150 years, and the release of greenhouse gases that speed global warming.

At the completion of their study of coal and coal mining, the students will take part in a role play activity to evaluate the economic and environmental factors associated with mining. Students are given a chocolate chip cookie and allowed to "mine" for chocolate chips for five minutes. At the end of the time period students count how many chips they have and enter the number on the "Mining evaluation worksheet". Students will follow the instructions on the worksheet to determine if they made or lost money. The worksheet accounts for capital costs, land costs, facility costs, operating costs, environmental costs, and environmental bond costs.

#### **Day 7, 8,9,10,11 and 12: Energy Alternatives**

Learning goals:

- 1.) The students will compare the advantages and disadvantages of nuclear energy and renewable energy sources like solar, geothermal, hydroelectric, wind, and biomass
- 2.) The students will research the advantages and disadvantages to "going green" such as energy efficient homes and fuel cells

After evaluating the various types of non-renewable fossil fuels, the unit then moves to nuclear and renewable energy forms. On day 7 the students will view an hour long movie called "Blown Away" about the town of

Greensburg, Kansas. Greensburg was virtually destroyed by a tornado and the people of the town decided to rebuild "green". The movie shows many innovations in green building techniques and is quite inspirational.

The next class period each student will be given a chart that has a column for costs, advantages, and disadvantages of each type of alternative energy we will discuss. As the class listens to a short (15 min) lecture on the advantages, disadvantages and costs associated with each type of alternative energy source, the students will fill in their charts.

The students will then be divided into groups of 3-4 students and given solar panels, protractors and meters to do a solar energy lab. The groups will go outside and use their meters to measure the number of volts generated by the solar panel at different angles to the sun in an effort to determine the most efficient angle.

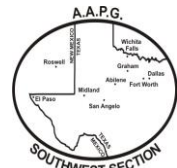
On day 9 the students will do a wind energy lab. The lab has two parts: First, using the Alternative Energy Kits the students will experiment with the number of blades on the wind turbines to determine the most efficient construction for the turbines. Then, the students will construct the fuel cell and use the wind turbine design that they determined to be the most efficient to generate electricity to run the fuel cell. The students are free to "play" with the kits and discover other ways to generate electricity.

We finish the unit with the Green Building Project. The students will design and build a model of a "Green Building". They can choose to build any type of building they would like and in the past have chosen to build a house, an office building, a skatepark, a homeless shelter, and even a hot dog stand. We discuss the requirements for LEED certification and the students are instructed to include modification to their building that would help to qualify it for certification.

The students are given two days with internet access to research their green building before they must turn in the design for approval. After project approval. The students build the models and present them to the class.



**THE SOUTHWEST SECTION**  
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**Southwest Section**  
**American Association of Petroleum Geologists**

**IBA Committee Report**  
April 12, 2015

This year the Southwest Section, AAPG, had seven universities register as participants in the Imperial Barrel Award competition. These were:

- Texas Tech University
- University of Texas – Dallas
- University of Texas – Arlington
- University of Texas – El Paso
- Texas Christian University
- Baylor University
- Sul Ross University

Five of the Schools met in Dallas, at Brookhaven College, on March 28, for the competition. The winning team was from UTEP. Second place went to Texas Christian and third to UT Arlington. Congratulations to each of these teams.

Last year bills were sent to AAPG, but went unpaid. The donation to Brookhaven was paid this year, along with this year's donation, by SWS. Some bills were paid by committee members.

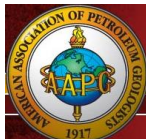
I would suggest that all outstanding bills should be paid by SWS and then bill AAPG, so that we have met our obligations.

The costs to date are listed in the attached documents.

David Coddling

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**Southwest Section  
American Association of Petroleum Geologists**

SWS AAPG Board Meeting  
April 12, 2015  
Wichita Falls, TX

**AAPG Advisory Council Representative Report:**

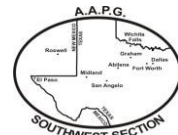
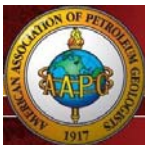
Nominations for national AAPG office closed March 20<sup>th</sup>, and the nominating committee will meet at the annual ACE convention in Denver on May 29<sup>th</sup> to determine the next slate of candidates.

Candidates for national awards are being sought, and society officers and awards committee chairs are requested to submit names to me for consideration as soon as possible.

I have been appointed as a member of the Ad Hoc Committee on Governance as an Advisory Council representative. At the request of the Executive Committee, this group is examining ways in which AAPG governance and organization could be improved as the society heads into its second century.

Respectfully submitted,

Robert Webster  
AAPG Advisory Council Representative



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**Southwest Section  
American Association of Petroleum Geologists**

April 12, 2015

**Web Site Committee Report  
Submitted by: Robert S. Nail, PhD, Chair**

**Executive Summary**

Due to circumstances outside the control of SWS-AAPG, the Society web site ([www.southwestsection.org](http://www.southwestsection.org)) has become unusable. This situation requires the current Board to determine how the Society web site will be restored via consideration of several options.

Understanding the web site's current and future use, along with how to maintain should be considered by the Board before coming to a decision. Discussion of these considerations is provided within the body of this report.

There are two basic types of web sites, database (DB) and static (ST). DB web sites have functionality and capabilities not available via a ST site. In general, an ST site has the capability of providing information, but has little online functionality. Both DB and ST sites need regular maintenance; however, ease and cost of maintenance can vary significantly.

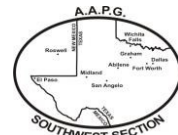
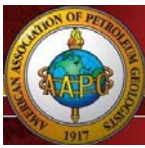
Options available to the Board for consideration include:

1. Continue relationship with our current host (Tendenci) by moving our site to their newest DB Platform 6 (requires new coding); range of initial upgrade is \$2500-\$7500, and monthly host charge of \$250. Our new site could be up and running within 4-6 weeks of approval.
2. Hire new Host that designs, develops, and maintains a ST site; most likely will cost less, both initial and monthly charges. Will take months to research, find a Host, and develop our new site before we go live.
3. Hire new Host that designs, develops, and maintains a DB site; most likely will cost more, both initial and possibly monthly charges. Will take months to research, find a Host, and develop our new site before we go live.

As Chair of the Web Site Committee, I recommend Option 1 above.

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# THE SOUTHWEST SECTION OF THE AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS

[www.southwestsection.org](http://www.southwestsection.org)

P.O. Box 1595  
Midland, TX 79702

## Historical Summary

The 2007-2008 Executive Board requested from me volunteer time to upgrade and maintain the SWS-AAPG site, which at the time was a simple html coded site incapable of multiple online functions requested by the Board. After extensive research and conversations with other societies (HGS, AAPG, GCS-SEPM, etc.), it was recommended and acted upon by the Board to hire Tendenci (previously named Schipul) to assist in designing, hosting, and maintaining the SWS-AAPG Site on their server. Once the site became operational (2008), the functionality and use of the site was considered a success.

Thanksgiving of 2014 the Tendenci Microsoft servers were attacked by a malicious and ultimately deadly virus attack. All sites created and hosted with Microsoft server software (Tendenci references this as Platform 4), including the SWS-AAPG site, became effectively non-functional. The damage created was beyond repair by Tendenci or Microsoft, and the decision to discontinue use of this software (by both companies) was made February of 2015. The result of this decision meant our site was no longer viable.

Since the untimely death of our site, Tendenci has placed a static landing page for our site address ([southwestsection.org](http://southwestsection.org)), and will maintain this page until the current Board decides what to do with the SWS-AAPG site.

## Discussion

For complete disclosure, I am a professional geoscientist and not a professional web site developer any longer. I volunteer my time and provide information to the Board on the basis of my knowledge of web site development obtained from 1995-2005. I discontinued my professional web site business in 2005, because I no longer had the time to keep up with the rapidly expanding web site development business. I volunteer my time and knowledge (as it is) regarding SWS-AAPG web site design, capabilities, and function only as a concerned member and professional geoscientist of SWS-AAPG.

The current Board needs to make a decision on the future of the SWS-AAPG site.

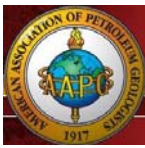
There are two basic types of sites that can be considered, of which I will refer to them as database (DB) and static (ST). The pre-2008 site was ST, and the site we just lost was DB. The 2007-2008 Board decided to fund a DB site (more expensive) because they were concerned about the future use and capability of the site. Specifically, they wanted a site that could evolve over time and could meet the future needs of the society, even if the society was not able to take full advantage of DB capabilities immediately. Major Board concerns that were addressed by a DB site (and minimal to not by an ST site) included:

- Maintenance capable by Society volunteer; minimal 3<sup>rd</sup> Party charges
- Membership Management
- Membership specific functions (Job Board, Service Ads, Member lookup, etc.)
- Events module with online registration and pay
- Hierarchical site permissions
- Member Society access

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- Meet online and site expectations of future (younger) members
- Management Reports

Historically we have not taken full advantage of the DB capabilities, but they have been in place for future use.

Although the bullets above are not in any specific order, bullet one was and continues to be a major concern. I have witnessed many local societies web sites become less than desirable because of the lack of support provided. Local societies tend to be highly dependent on their volunteer members, and most geologically based societies do not have the membership expertise or funds required to maintain a site that has and will continue to take on greater importance. The solution to the maintenance problem lies in ease of maintaining site content. ST sites require a person knowledgeable in coding or the use of a 3<sup>rd</sup> party software (i.e., Adobe Dreamweaver, Microsoft Front Page, hundreds more!). DB sites require the same, but a few host companies provide an ease of use “dashboard” that allows non-programming (coding) people to use. These dashboards typically emulate a Word-like function that allows non-professional users to maintain the site. Tendenci provides such a dashboard.

Recent discussion amongst Board members has included the question of why not build a site like our member society NTGS (<http://www.ntgeologicalsociety.org/>). It is my understanding they were able to build this ST site for less money and less monthly host charges than what it would cost to maintain a DB site. It is a very well designed site and apparently meets the needs of NTGS. I am not privy to how the site is maintained on a regular basis (volunteer or 3<sup>rd</sup> party). However, it does not have the capabilities as our DB site had, as identified important to previous SWSAAPG Boards.

Another option would be to continue our relationship with Tendenci. Currently I am aware of two Member Societies that continue to use Tendenci DB sites, WTGS and DGS. Both of these sites are on a newer Platform 5 (Python based, not Microsoft) and have not experienced any of the issues we have experienced. Tendenci’s original proposal was to upgrade (requires re-coding) our site to their newest Platform 6 (Python based) at a cost of \$6500-\$7500, and maintain our current monthly host charges of \$250. Recently I was told via phone conversation with Tendenci, they are going to submit a bid to upgrade our site for \$2500, yet I have not received this bid in writing (as of this report). Our new site would maintain our current DB capabilities plus some with the newer platform.

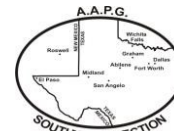
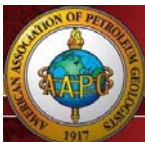
Another option would be to research and hire another host company that provides DB and/or ST sites.

To help the Board make a decision on which option to pursue, relative to a DB or ST site, I have provided below some of the general capabilities of each. This list is not considered to be exhaustive, but certainly representative, so expectations can be realized. I have also attached a list of Tendenci DB capabilities at the end of this report.

	<b>DB Site</b>	<b>ST Site</b>
Maintenance - Knowledge HTML/programming	No (Word-like Dashboard)	Yes (or 3 <sup>rd</sup> Party Software/Intervention)
Membership Management	Yes	No
Online Registration	Yes	No
Online Payment	Yes	No

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Multiple Permissions	Yes	No
Member Society Access	Yes	No
Membership Directory	Yes	Limited
Online Job Submissions	Yes	Limited
Photos/Event Submissions	Yes	No
Multiple Site Reports	Yes	Host Dependent
Email Society News	Yes	No

Another consideration is the overall time and cost to get a live web site.

1. If we maintain our relationship with Tendenci, the site could be operational within weeks (4-6). Basic design and files are already in place and would only be dependent upon how fast the Board could approve the new site. Initial cost may be as low as \$2500, or as high as \$7500 depending on the most recent bid submission from Tendenci, and the Board's ability to approve the new design. Monthly cost would remain the same as is now, \$250.
2. Options that require hiring a new web site designer/developer and host provider would all take months of work (both SWS-AAPG volunteer(s) and new hire company) before we get a live web site. I do not have specific costs from companies because I have not requested any to date. In general, initial and monthly cost of a new ST site would cost less than a DB site.

**Recommendation**

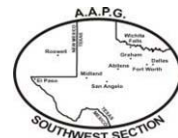
I want the Board to understand my recommendation is completely founded in two bases:

1. *I am a concerned member of our Society:* I think the SWS-AAPG web site is and will continue to be our primary tool used to present our Society to our members and the world. I think the significance and use of this tool will continue to grow in importance, and expectations of its use by our members will only increase. Regardless of our current use, I think our members deserve the opportunity to have a tool they find useful and current.
2. *My experience in maintaining a useful, viable web site:* A web site is only as good as its capabilities to provide services and relevant information to its primary audience. The only way to accomplish this goal is to have continuous maintenance. A society with major funds can hire professional help; unfortunately SWS-AAPG typically finds itself having to maintain a limited budget. In an effort to maximize value of the web site and our budget, we must find the means to address maintenance from within our society, aka volunteers who are not professional web site developers.

On the bases above, I recommend we upgrade our site to the newest Tendenci DB Platform 6. It is my understanding that the Society can easily maintain a budget of \$3000/year to provide our members with a DB web site that has growth potential as future members expectations grow, and is capable of being maintained with minimal 3<sup>rd</sup> Party expenses.

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## Appendix A: Tendenci Features List

**(Note: The most valuable aspect of these features is all can be added/updated/maintained by a Society Volunteer that has basic computer and Word-like skills; minimal time to learn how to accomplish results.)**



### MEMBERSHIP MANAGEMENT

- Define and Customize an unlimited variety of membership types
- Perfect for online [Association Management](#)
- Supports single-location associations as well as multiple chapter/location organizations
- Online membership registration and renewals
- Flexible grace periods and pricing for early, late, and custom renewals
- Specific and Selective Permission levels
- Create custom notices for renewals, expirations, and new membership sign-ups
- Corporate and Individual membership levels
- Keeps your members organized automatically for segmenting custom communications
- Searchable [Member Directory](#) with Member Profiles
- Full admin controls to edit, add, and delete members and member account information
- Automatic billing and invoicing for membership and dues management
- Flexible period lengths for memberships
- And More...

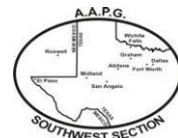
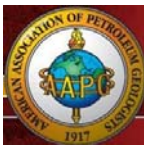


### EVENTS MANAGEMENT

- [Calendar of Events](#) to organize and promote your events
- Online registration and payment inside your website domain
- 1 page event creation
- Colorful, custom event types to segment and search by type
- Tiered pricing flexibility
- Create and manage custom Discount codes
- 1-Click email to registered attendees with updates, post-event surveys and more
- Add an unlimited number of speakers to an event for conferences and panels.
- Google Maps Integration so your registrants won't get lost
- Include logos, speaker bio's, images, and headshots
- Roster reports of registered, canceled, paid, unpaid that is exportable to .csv
- Admin override ability for registration and special pricing

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- Update anywhere online
- Custom bundled tickets for groups, sponsors, team events
- Duplicate recurring events to save time adding to website calendar
- Event reports and analytics for key event marketing metrics
- Integrate events with social networking sites to make them easy for attendees to share online and help promote
- And More...



## CAREER MANAGEMENT

- Searchable Job Board by keyword
- Allow **job postings** on a cost or no-cost basis
- Resume uploads
- Searchable Business Directory by category or keyword
- Optional Staff Application



## MOBILE FEATURES

- Out-of-the-Box recognition of mobile versus PC or MAC browser viewing to adjust viewing
- Optional Mobile Stylesheet customization for true accessibility
- Auto-Resizes and formats your Tendenci website to the width and height of browser window

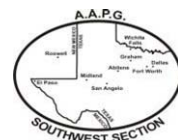
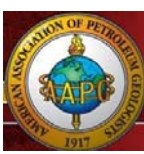


## ONLINE PAYMENTS

- Integrate an online payment gateway with all your Tendenci modules - [Details about Accepted Merchant Accounts](#)
- Manage financial transactions in one place on your website
- Invoices
- Reporting
- Add Merchant Account info in global settings (1 place) to implement in all the modules
- Export to .csv
- Custom Payment Confirmation Page

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## RICH MEDIA

- Create Online Video and Photo Galleries
- Mass photo uploader to save time
- Batch edit photo albums
- Custom selection of photo album cover image
- Selective permissions control over who can view content
- Automatic photo resizing
- Creative Commons Licensing or All Rights Reserved Licensing automatically



## CONTENT MANAGEMENT

- Compatible with Most Web Browsers (IE, Chrome, Safari, Firefox and more!)
- WYSIWYG (What You See Is What You Get) Rich Text Editor
- Pages and Custom Page Templates
- Distributed Authorship Capabilities give you control of your content editors.
- News Articles
- Featured Homepage Stories
- Tendency Tabs Drop Down Navigation Menus
- Tag all content with keywords
- Automated Importation of WordPress into Tendency
- Fully scalable to allow for thousands of pages of content within your website
- Easily upload and share files in .pdf, .csv, .docx formats
- Granular selective permissions control for each piece of content including photos, video, files, articles, pages, and events.
- Integrates with several E-commerce and shopping cart software solutions
- Global Site Search

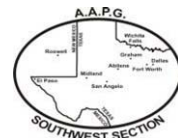
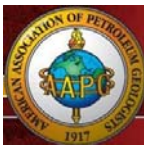


## SOCIAL MEDIA MARKETING

- Link your Tendency website to all your social media accounts to display on your website
- Allow members to comment, rate, “Like”, and “+1” content on your website with custom plug-ins
- Protect your members content and personal information with secure privacy settings to limit access to certain groups, content, and information on the website

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## SEARCH OPTIMIZATION

- Out-of-the-box SEO for Title tags and META information
- Web Analytics integration
- Custom SEO
- Locations Module for Local Search of Your Physical Locations on your website and in search engines
- Services Catalog to help search engines find your site when prospects are doing online research



## DONATION AND FUNDRAISING

- Online donations directly through the website
- Organize and Manage online donations and sponsorship dollars inside Tendenci
- Donation Financial Reports for credit card reconciliation and invoice payments
- Export donations invoices, forms and reports to .csv
- Customizable donation submission form
- Create custom donation recipient fields to allow donors to select where to donate to such as with multiple departments or partnership charity events.

## MULTILINGUAL WEBSITES

- Second language websites are a custom feature within Tendenci - [please contact us to learn more!](#)
- See more at: <https://www.tendenci.com/full-features-list/#sthash.3hNGnM4b.dpuf>

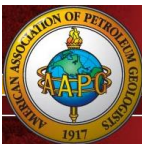
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## Dallas Geological Society Report

- **Membership:**
  - **Active 263**
  - **Associate 41**
  - **Honorary 8**
  - **Student 74**
  - **1012 people receive our newsletter**
  - **We are still struggling with cleaning up these lists, because of our reliance on the Tendenci web site.**
- **Officers turn over in June.**
  - **I will be rotating off the board and will try to find a replacement who is still active on the board.**
  - **Brad Winton will take over as president**
- **Two meetings per month, Sept-May.**
  - **Luncheon meeting averages 40 to 80 attendees**
  - **Evening (international) meeting averages about 40.**
  - **Two joint meetings with Geophysical society (Nov and Feb)**
  - **One or two social events in summer.**
- **Positive news for 2014-15.**
  - **Continued cooperation with Dallas Geophysical Society. 2 joint board meetings and informal representatives on each other's boards. Joint Christmas party and Golf tournament.**
  - **YP committee doing fine.**
    - **They are continuing to organize a few separate social events.**
    - **Core group of about 10**
    - **About 30 YP's + equal number of students.**
  - **Successful co-sponsor on fall symposium with SIPES**
  - **Finances in good shape...received a bequest in 2014.**
- **Negative news**
  - **Continue to struggle with web site issues and bookkeeping.**

Joe Davis, Past-President



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**Fort Worth Geological Society  
Representative Report  
Amy Patterson**

The Fort Worth Geological Society currently has 219 members. We meet monthly on the 2<sup>nd</sup> Tuesday of each month, with an average attendance of 110.

Fort Worth Geological Society Officers:

PRESIDENT: Melody Hacker

VICE-PRESIDENT/PRESIDENT ELECT: Amy Patterson

VICE-PRESIDENT: Bryan Musgrave

TREASURER: Rebecca Harrington

SECRETARY: Joseph Dishron

-We have upcoming end of the year Membership event at Flying Saucer on May 13<sup>th</sup>.

-May is our scholarship month. We are giving 3 scholarships to graduate students at Baylor, TCU, and UTA.

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