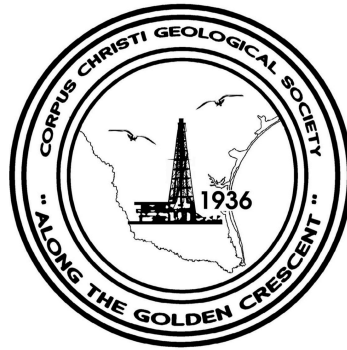


BULLETIN

**Corpus Christi
Geological Society**



and

**Coastal Bend
Geophysical Society**



**October
2015
ISSN 0739 5620**

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**PLEASE NOTE THAT
OUR LUNCHEON
MEETINGS WILL BE AT
THE ORTIZ CENTER**

(TOWN CLUB IS CLOSED)

DATES MAY VARY

AS WE GET OUR SCHEDULE
WORKED OUT.

**NEXT MEETING IS
WEDNESDAY, OCTOBER 28.**



CORPUS CHRISTI GEOLOGICAL SOCIETY

P.O. BOX 1068 * C.C. TX. 78403

2015-2016

www.ccgeo.org

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2015-2016

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Scholarship/ Chairman	Ed Egger	361-947-8400	edegger69@gmail.com
Education			

**Visit the geological
Web site at
www.ccgeo.org**

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CCGS/CBGS JOINT MEETING SCHEDULE 2015-2016

September 2015							October 2015							November 2015						
S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S
		1	2	3	2	5					1	2	3	1	2	3	4	5	6	7
6	7	8	9	10	11	12	4	5	6	7	8	9	10	8	9	10	11	12	13	14
13	14	15	16	17	18	19	11	12	13	14	15	16	17	15	16	17	18	19	20	21
20	21	22	23	24	25	26	18	19	20	21	22	23	24	22	23	24	25	26	27	28
27	28	29	30				25	26	27	28	29	30	31	29	30					

Sept. 10, 2015
5:30p.m.—8:30p.m.
Kickoff BBQ
Hoegemeyer’s Barbeque Barn

Oct. 28—11:30a.m.—1:00p.m.
Speaker: Neil Peake, CCG Geo
Consulting Seismic Reservoir
Characterization.
“Unconventional Reservoirs:
An Integated Workflow
Incorporating Surface Seismic,
Mineralogy, & rock Properties
in the Haynesville Shale.”

Nov. 18—11:30a.m.—1:00p.m.
Speaker: Lorenzo Garza & Joe
Stasulli, Railroad Commission of
Texas. “Horizontal Drilling in Texas:
A Tale That Begins in the Austin
Chalk, but Whose Ending Has Yet
To be Written.”

December 2015							January 2016							February 2016						
S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S
		1	2	3	4	5						1	2		1	2	3	4	5	6
6	7	8	9	10	11	12	3	4	5	6	7	8	9	7	8	9	10	11	12	13
13	14	15	16	17	18	19	10	11	12	13	14	15	16	14	15	16	17	18	19	20
20	21	22	23	24	25	26	17	18	19	20	21	22	23	21	22	23	24	25	26	27
27	28	29	30	31			24	25	26	27	28	29	30	28	29					
							31													

Dec. 9—11:30a.m.--1:00p.m.
Speaker: Dmitri Bevc, Ph.D.,
SEG Distinguished Lecturer
“Full Wave-Form Inversion:
Challenges, Opportunities and
impact”

Jan. 20--11:30a.m.—1:00p.m.

Feb. 17—11:30a.m.—1:00p.m.
Speaker: Collegiate Month.

CCGS/CBGS JOINT MEETING SCHEDULE 2015-2016

March 2016							April 2016							May 2016						
S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S
		1	2	3	4	5						1	2	1	2	3	4	5	6	7
6	7	8	9	10	11	12	3	4	5	6	7	8	9	8	9	10	11	12	13	14
13	14	15	16	17	18	19	10	11	12	13	14	15	16	15	16	17	18	19	20	21
20	21	22	23	24	25	26	17	18	19	20	21	22	23	22	23	24	25	26	27	28
27	28	29	30	31			24	25	26	27	28	29	30	29	30	31				

March 16—11:30a.m.—1:00p.m. Speaker: April 20—11:30a.m.—1:00p.m. Speaker: May 18—11:30.m.—1:00p.m. Distinguished Speaker:

Calendar of Meetings and Events

Calendar of Area Monthly Meetings

- Corpus Christi Geological/Geophysical Society.....Third Wed.—11:30a.m.
- SIPES Corpus Christi Luncheons..... Last Tuesday—11:30a.m.
- South Texas Geological Society Luncheons..... Second Wed—noon San Antonio
- San Antonio Geophysical Society Meetings..... Fourth Tuesday
- Austin Geological Society..... First Monday
- Austin Chapter of SIPES.....First Thursday
- Houston Geological Society Luncheons..... Last Wednesday
- Central Texas Section of Society of Mining, Metallurgy & Exp..... 2nd Tues every other month
In San Antonio

*****BLOOD DRIVE*****

OCTOBER - 2015



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When you give blood: They have us listed as C.C. Geological Society. Our number with them is 4254 & it would be helpful if you can please give them that number also. Phone No. 361-855-4943.

This message approved by Mike Lucente....



PRESIDENT'S LETTER

RENAISSANCE OF CONVENTIONAL DRILLING

As President of the CCGS, I am breaking from tradition and making this letter short and to the point. I am calling the bottom now, with some qualifications. 1) Oil prices are likely to stay relatively flat or rise slightly. 2) Natural gas prices are likely to do the same.

How is this good news? I think \$50-70 oil is good and \$100 is bad for a renaissance of conventional drilling projects. The conventional folks have been in an oil and gas drilling DEPRESSION for many years, due to incredibly high drilling and completion costs (oil field services) associated with the boom in “shale drilling” that bid these services up and shut us out.

Now it is our turn. Dust off the old prospect files, rerun the economics, and throw out the old inflated AFE's. Engage new 3D and logging technologies that will provide quality prospects to the market. Remember, “If you build it, they will come.”

Mike Lucente

CCGS President

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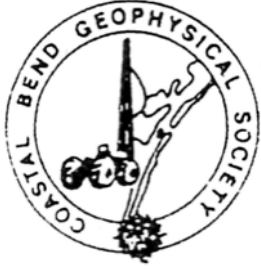
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CBGS PRESIDENT'S LETTER

News - CBGS Golf Tournament - October 23, 2015. Tournament revenue funds geophysical scholarships. CBGS awarded 2 scholarships last year, one to University of Houston, one to Texas A&M College Station. Email Fermin Munoz (fmunoz04@hotmail.com) or myself(blakelj1@netscape.net) to sponsor or participate.

SEG Annual Convention, Oct 18th to 23rd, New Orleans - Numerous short courses and workshops.

Business -

CBGS still needs a volunteer to organize CBGS education events. Would like to do a one day session on seismic inversion this year. This role takes little time, only is done once a year and it keeps you connected with the geophysical community. Let me know if you are interested.

Education -

- GSH

Nov 10-13: Combined Inversion of Seismic and Non-Seismic Exploration Data

- CBGS has a revenue sharing agreement with GSH, so please mention CBGS if you register for any GSH events.

SEG

Houston, Woodlands - 2-3 Sept, Seismic Anisotropy: Basic Theory and Applications, \$1295

2014 SEG Convention Technical Program Recording: Available at the following link -[SEG Convention Technical Program Recordings](#)

SEG has 450+ eLearning courses online from \$0.99 to \$150.00(most expensive I saw)

<http://www.seg.org/professional-development/seg-on-demand>

AAPG

Practical Salt Tectonics - Houston, Texas 1-4 December 2015

Monthly O&G Statistics

Seismic Crews - US Onshore	Current Month	Last Month	Difference	(Per SEG/Seismic Crew Reports Survey)
	Onshore/Offshore	Onshore/Offshore		462 Worldwide (+7 from May)
	35/18	44/22	-13	Jun
	Current Month	Last Month	Last Year - Monthly	(Per Texas RRC, last reported)
Texas Production	MMBO/BCF	MMBO/BCF	MMBO/BCF	
Oil	68.9	77.6	72.5	Jun
Gas	607	674	690	
	Current Month	Yr to date - 2015	Yr to date - 2014	
Texas Drilling Permits	864	7,407	16,719	Aug
Oil wells	222	1,828	4,890	
Gas wells	59	546	912	
Oil and Gas wells	518	4,598	10,209	
Other	0	0	0	
Total Completions	1,382	14,665	20,657	Aug
Oil Completions	1,113	11,723	17,787	
Gas Completions	172	2,006	2,170	
New Field Discoveries	2	50	27	
Other	47	936	700	

Parting Thought - Tough times? A Grandma's story. Author unknown.

- A young girl was going through some tough times and told her grandma that she didn't know what to do. Grandma thought for a minute then brought 3 pots of water to a boil. She then asked the girl to put a carrot, an egg and some coffee beans in each boiling pot. After about 20 minutes, Grandma put them in bowls and poured the coffee out into a cup. She asked the girl to feel the carrot. It was soft and mushy. She asked the girl to check the egg. It was hard boiled. She asked the girl to taste the coffee. The girl smiled as she tasted the rich coffee. She then asked Grandma, "What does it mean?"

Grandma told her that each of the objects had faced the same adversity: boiling water. Each reacted differently. The carrot was hard before but became soft when put in the hot boiling water. The egg was fragile with a thin outer shell protecting a liquid interior but after sitting in the hot boiling water, it's inside became hard. The coffee beans were unique, however. After being subjected to adversity, they got better and changed the water into something rich, aromatic and tasty.

Grandma asked - "How do you handle adversity?" Become soft like the carrot? Hard like the egg? Or change the situation to something better like the coffee beans?

-- Lonnie Blake, CBGS President

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Tom Winn (Geologist)	361-844-6992
Southern Winn (Geologist)	361-844-6998

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ecblasingame@netscape.net



CORPUS CHRISTI GEOLOGICAL SOCIETY & COASTAL BEND
GEOPHYSICAL SOCIETY

LUNCHEON MEETING ANNOUNCEMENT

WEDNESDAY, OCTOBER 28, 2015

- Location:** Congressman Solomon P. Ortiz International Center, 402 Harbor Drive, Corpus Christi, TX 78401 <http://ortizcenter.com>
- Bar Sponsor:** To be announced
- Student Sponsor:** Core Lab (Juan Cabasos) and the CCGS
- Time:** 11:30 am Bar, Lunch follows at 11:45 am, Speaker at 12:00 pm
- Cost:** \$25.00 (additional \$3.00 surcharge without reservation; No-shows will be billed)
- Reservations:** Please RSVP by the Monday before the meeting
E-Mail: wes@gislerbrotherslogging.com

Please note that luncheon RSVPs are a commitment to the Ortiz Center and must be paid even if you can't attend the luncheon.

Unconventional Reservoirs: An Integrated Workflow Incorporating Surface Seismic, Mineralogy and Rock Properties in the Haynesville Shale.

Presented by Neil Peake, CGG



Development of an accurate, robust, and reproducible predictive model has proved elusive in unconventional plays. Lacking this model, drilling and completion decisions are often made on non-geologic criteria. As these plays mature, it is becoming clear that many wells will not reach their production targets. Shale zones originally thought to be homogeneous are proving to be quite variable. This is leading to renewed interest in the utilization of seismic data to create productivity models ahead of the drill bit.

Improvements in pre-stack simultaneous inversion over the past several years have led to the success and wide spread adoption of integrated seismic reservoir characterization studies for prediction of reservoir properties. These studies predict with an acceptable degree of certainty, reservoir and fluid properties in conventional plays. The application of these techniques to unconventional resources has at times been viewed suspiciously by the industry. Estimations of reservoir properties such as TOC, rock strength and stress require careful analysis and a high degree of seismic fidelity. A combination of attributes related to reservoir quality, rock strength, and stress is needed to understand the quality of the reservoir in terms of hydrocarbon potential and optimization of well orientation and completion strategy.

This talk concentrates on an integrated workflow that uses real geology to constrain and improve surface seismic reservoir characterization.

ABOUT OUR PRESENTER

Neil Peake earned a Bachelor of Science with Honors in Geology from the University of Glasgow in 1948, and his Master of Science in Geophysics from the University of Birmingham in 1985. He started with Western Geophysical as a Processing Geologist in 1986. He joined Downhole Seismic Services in 1987, serving as a Regional Geophysicist until 1992, when he joined Western Atlas. In 2000, Neil became the Global Marketing Manager for VSFusion, a joint venture specializing in borehole seismic between Baker Hughes and CGGVeritas from 2003 until 2007. Neil has worked with Baker Atlas from 1986 until 2008. He was the North American Geophysical Sales Manager for RXT until 2011. Neil presently serves as the U.S. Sales Manager for CGG GeoConsulting Seismic Reservoir Characterization. He has specialized in borehole seismic, microseismic, ocean bottom seismic, inversion, as well as business development, marketing, survey design, and all aspects of borehole seismic processing and contract negotiation for over 29 years. He is an avid scuba diver, a PADI certified instructor, an underwater photographer. He has taken part in many dives, including an Antarctica diving expedition in 2010. He is a member of the Society of Exploration Geophysicists (SEG), the European Association of Geoscientists and Engineers (EAGE), and the Club of Houston Underwater Mariners (CHUM) dive club.

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 - Multicomponent processing
 - AVO processing and inversion



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BLOOD DRIVE!

DATE: Thursday, October 15, 2015 from 1 pm to 4 pm

LOCATION: Railroad Commission of Texas
Corpus Christi District Office
10320 Interstate 37, Corpus Christi, TX 78410

The ***Railroad Commission of Texas*** is hosting the ***Coastal Bend Blood Center's*** Bloodmobile for a blood drive on Thursday, October 15th, from 1:00 pm until 4:00 pm. We are located off the northbound frontage road of Interstate 37, between Carbon Plant Road/Joe Fulton International Trade Corridor and McKinzie Road, across the street from the Texas Department of Public Safety's new licensing office.

Every three seconds someone needs blood!

"The fact is, blood donors save lives. It's that simple and that important. More than four million Americans would die each year if not for blood donors. In the Coastal Bend, more than 150 people a day must donate in order to maintain the blood supply for our community. You may not be able to change the world, but when you become a blood donor, you are giving patients in our community a second chance at life. Blood donation is a convenient and meaningful way for people to make a significant difference in the lives of residents across the Coastal Bend.

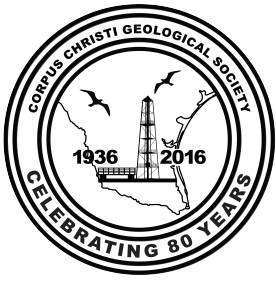
The summer months have led to an increase in blood usage as well as a drop in blood donations. We are in need of ALL blood types! By donating blood, you are giving the greatest gift ... the gift of life!"

<http://www.coastalbendbloodcenter.org>



**Corpus Christi
Geological Society**

When you give blood, the ***Corpus Christi Geological Society*** number is ***4254***, and can be provided at the time of donation!



Corpus Christi Geological Society Scholarship Application Guidelines Spring 2016 Semester

1. Applicant must be majoring in Earth Sciences and enrolled for the award semester (i.e. Spring 2016) at a college in the local area.
2. Fill out the application form clearly, completely, and sign it.
3. Short essay clearly explaining how this scholarship will assist you in achieving your geologic career goals and the reasons your application should be considered by the Committee.
4. Two (2) letters of recommendation - one must be from a geoscience faculty member or from a supervisor with whom applicant has worked with in a geoscience undertaking.
5. Applicant must provide a school transcript, please make sure it has your name on it. A web printout is acceptable.
6. **Applications must be postmarked by: October 17, 2015**
Application packet may be emailed in a shareable format (i.e. pdf, docx, etc) to **bissells@swbell.net**.

Mail completed application to: Dawn Bissell, CCGS Scholarship Committee Chairman, 253 Circle Drive, Corpus Christi, TX 78411

Please send an email to **bissells@swbell.net** once you've mailed your application.
Award notifications will be sent via email!!!

Please read requirements carefully and submit only complete applications. Applicants who have received a CCGS scholarship in the past are eligible to apply again.

Scholarships will be awarded based on merit and need. The award amounts may vary with the minimum individual award being \$500.

Award recipients will be recognized at the monthly **luncheon November 18, 2015** and are encouraged to attend.

Board Members:

Dawn Bissell

Brent Hopkins

Mike Lucente - CCGS President

Beth Priday

JR Jones



Corpus Christi Geological Society
Scholarship Application Form
Spring 2016
(Must be postmarked by October 17, 2015)

Last Name: _____ First Name: _____

Mailing address: _____
(where award may be mailed if applicant is unable to attend award presentation)

City: _____ State: _____ Zip Code: _____

Active Email: _____

Award notifications will be sent via email!!! Please email bissells@swbell.net once you've submitted your application.

Daytime Phone: _____ Alternate Phone: _____

University Attending in Spring 2016: _____

Department: _____ Major: _____

Scholarship is for class level (circle one):

Freshman Sophomore Junior Senior Graduate Student

Total Hours Completed: _____ Overall GPA (Minimum 2.5): _____

Total Hours - Geology: _____ Geology GPA (Minimum 3.0) _____

Hours Planned for Scholarship Semester: _____ Geology Hours: _____

Will this scholarship be used toward field camp? Yes No

Prior recipient of CCGS Scholarship? Yes No

Applicant Signature Date

Mail application, along with essay, two letters of recommendation, and transcript to Dawn Bissell, CCGS Scholarship Committee Chairman
253 Circle Drive, Corpus Christi, TX 78411 **Must be postmarked by October 17, 2015.**
Email bissells@swbell.net once you've mailed your application. Award notifications will be made via email!!!



CBGS GOLF TOURNAMENT

Coastal Bend Geophysical Society
NorthShore Country Club
October 23, 2015
12:30 p.m. Shotgun Tee Time
Four-Man Scramble
100 Player Limit * Sign up Early



Name _____
Email _____
Company Name _____
Address _____
City, State, Zip _____
Phone _____
____ Yes, Please Place on a Team
____ I want to be on a Team with: (list below)
Player 2: _____
Player 3: _____
Player 4: _____
_____ \$100 per Golfer
_____ \$400 per Team (4 players)
_____ Sponsorship Total

_____ **TOTAL AMOUNT DUE**

PAYMENT INFORMATION

____ Check Enclosed
Make Checks payable to:
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361-960-1126
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___ Golf Beverage Cart \$700 ea. _____
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Contact **Walter S. Light Jr.**
 President/Geologist
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 EMAIL: wthunderx@aol.com

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FOSSIL HUNT GATEWAY TO GEOLOGY

ARTICLE 1 of the Constitution of the Corpus Christi Geological Society states, “The organization shall be called the Corpus Christi Geological Society. The object is to promote the science of geology, especially as it relates to the development of oil and gas and other resources in Southwest Texas.”

The Corpus Christi Geological Society Fossil Hunt, held May 2, 2015 certainly promoted the science of geology. Approximately one-hundred individuals participated in the event, ranging in age from about two to eighty-five years old, with a median age for the adults probably about thirty-five. Considering the fact the hunt had to be postponed due to the weather, attendance was very good. Adults brought their children and about one-half of those attending were probably minors. All seemed to enjoy climbing around on the rock piles looking for vertebrate fossils and petrified wood.

Juan Cabasos started the fossil hunt as an outing for employees of Core Lab in 1997 and the Geological Society was invited to participate in 1999. The majority of attendees this year was not members of the Society and seemed to have gotten word of the event through association with Society members, the Society web site and area institutions of higher learning. The general public has never formally been invited to participate in the fossil hunt. The public started attending at the invitation of individual members of the Society, and before long the event became an educational and enjoyable outing for many area citizens

Although the general public was never formally invited to attend the Fossil Hunt, they now make up the majority of those participating in the event, which is a good indication of its success. It shows how the Society can succeed in its endeavors without a great deal of effort.

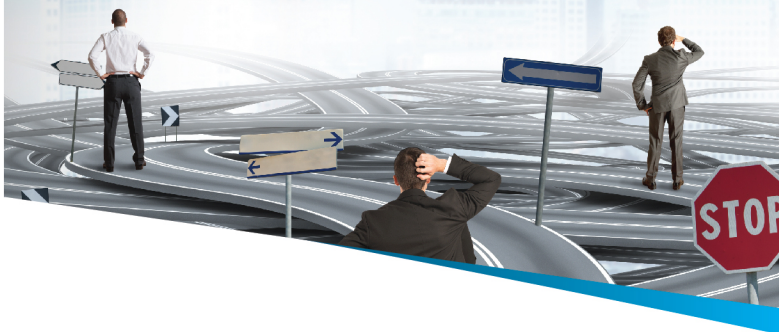
As an example of how this has worked, a family with a young son and daughter moved in next door to a Society member several years ago. The fossil hunt was mentioned to the daughter during casual conversation when she was in Middle School and she asked her mother to take her to the Fossil Hunt. The mother took her to the Fossil Hunt almost every year through Middle and High School. The girl graduated from Ray High School, and later from The University of Texas with Bachelor and Master’s degrees in geology. She is now working on a Ph. D. degree in paleontology at Zurich University in Switzerland, probably encouraged by attending the Fossil Hunt.

The Corpus Christi Geological Society is very grateful to the Wright family, who own the quarry where the Fossil Hunt is held, for permitting the Society to hold the hunt each year. The Society also wishes to thank Mr. Greg Truesdale, operating manager of the quarry and Ms. Linda Estes, office manager, for their help in making the Fossil Hunt at the quarry successful each year. Operators of the quarry try to keep an individual on or near the processing line at the quarry to watch for fossil specimens that may be travelling along the processing line with the gravel. They try to pull fossils from the processing line when they are noticed and Ronny Thomas collects specimens from the quarry found by the workmen and takes them to Texas A & M Kingsville.

continued on page 24

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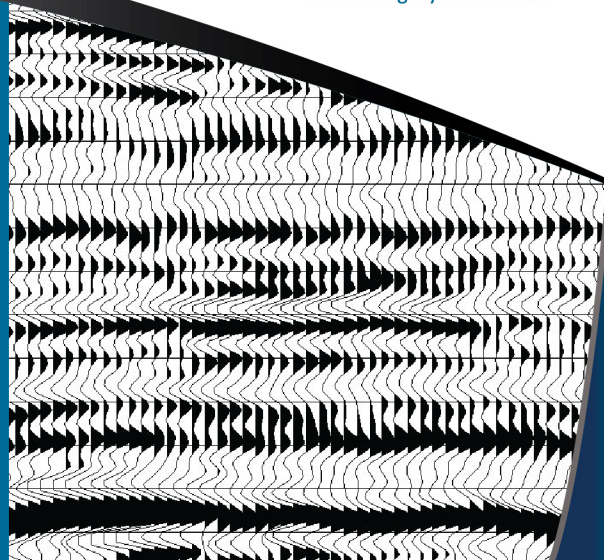


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Some of the attendees at the meeting place prior to going to the quarry. All had to sign in and agree not to hold the quarry responsible for any accidents.



Dennis Moore, Will Pureyear, Dr. Jon Baskin, Ronny Thomas, and Juan Cabasos. Note the Woolly Mammoth teeth held by Will and Dennis. All photos except for the lone Mammoth tooth are provided by Dennis Moore and Ronny Thomas.

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Outer surface of a mammoth tooth found at the site

Mammoths, like modern elephants, had different sets of teeth and shed them as they aged, and as the teeth were worn down by chewing. Modern elephants are generally considered to be descendants of the Mammoths. Elephants and Mammoths both have, or had, only a limited number of teeth cycles and when the teeth were no longer replaced, the animal died because it could not chew available food. Elephants and mammoths both have six or seven sets of teeth, similar to the way humans have two sets of teeth, the baby teeth and permanent teeth. The first set of teeth in modern elephants came in soon after birth and are replaced at 1 to 2 years of age. The roots of the teeth are absorbed and the rest of the tooth is pushed out of the mouth. The teeth are replaced from front to back, so the longer, new teeth are always at the back of the jaw and the worn teeth at the front. The second set of the elephants teeth last from about 2 to 6 years. The third set from about 1 or 2 to 13 to 15 years. The fourth set of teeth last from about 6 to 28 years. The fifth set lasts from about 18 to 43 years and the sixth set from about 30 to 65 years. There is overlapping in the ages because each elephant is different. When the last set of elephant teeth wear down to the point the elephant cannot chew, it dies, if it has lived that long. Most mammals have only one or two sets of teeth. Humans have two sets, the baby teeth which are usually replaced by the age of twelve to fourteen by what is referred to as permanent teeth.

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The chewing surface of the mammoth tooth immediately above

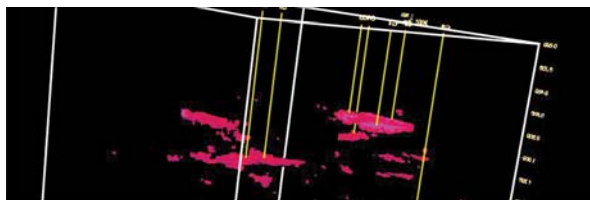
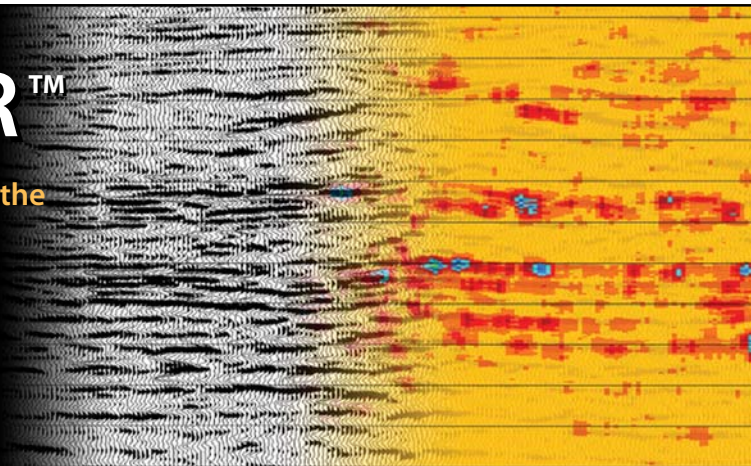
Elephants and mammoths chew from front to back. That means the food the mammoth eats is ground back and forth across the ridges seen on the teeth. Modern cows, and many other hoofed animals, chew from left to right. Notice on the tooth held by Will Pureyear that ridges on the surface of the tooth go across the tooth. The same is true of the tooth immediately above. The teeth have a layer of enamel, a layer of dentine, a layer of enamel, a layer of dentine, etc until the tooth quits growing. This material may or may not be enamel and dentine as human teeth have, but appears to be similar. It is layers of material a little softer between layers of material a little harder. Human teeth have a layer of enamel on the outside, a layer of dentine under the enamel and pulp on the inside of the tooth. The mammoth teeth appear to lack the pulp material and consist of hard and harder layers. The teeth appear to grow by adding these hard and harder layers of material. The tooth held by will has at least ten layers of material and the tooth immediately above only three. Pieces of mammoth teeth were found all over the quarry site, so it is possible the tooth immediately above is only part of a tooth. However, based on the root and other factors, it probably represents the entire tooth the mammoth had at time of its death. There is no way to determine which tooth cycle the mammoth was in when it died.

The mammoth tooth at the top of page three probably came from a mammoth that died prematurely, because the tooth is not worn much. The teeth held by Will and Dennis probably

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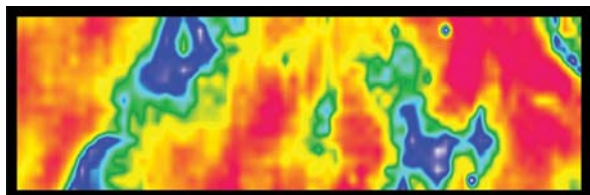
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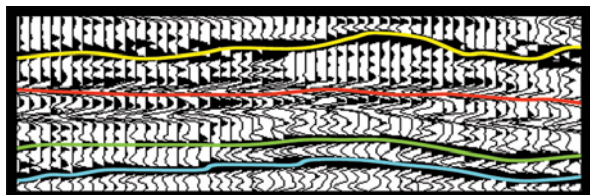
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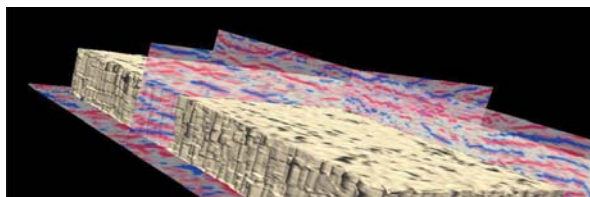
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came from a mammoth that died of old age, because those teeth are worn down to the nub, or they may be teeth the mammoth expelled because they were replaced by newer teeth. Losing these teeth in the cycles is similar to humans losing baby teeth, except the mammoth and elephant tooth cycles seem to be more related to wear on the teeth rather than simply age.



Field trip necessities, the Skid O Kans, being moved between quarry locations.

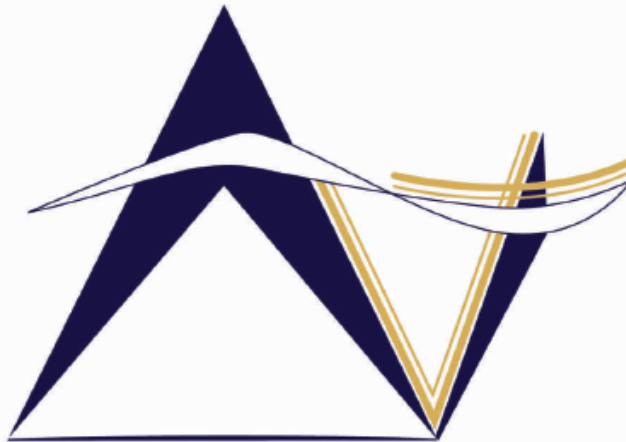
The company for which Will Pureyear works provided the Skid O Kans free of charge to the Society. Will aided in identification of specimens found by participants and the Wright family has given Will permission to lead expeditions to the quarry, an example of the success of CCGS extending the science of geology to the general public.

Dr. Jon Baskin and Ronny Thomas, from Texas A & M Kingsville, were kept busy identifying specimens brought to them by the hunters. Fossil hunters were not allowed into the quarry proper on this trip due to wet conditions. The quarry was operating during the visit and fossil hunters were able to look through fresh supplies brought from the quarry

Judging from the enthusiasm shown by some of the youngsters climbing around on the rock piles at the latest fossil hunt, some of them may study geology when they get to college. Most of the adults seemed to enjoy the Fossil Hunt as much as the children. The annual fossil hunt is another example of work the Society does to interact with the community and encourage students to study geology.

continued on page 32

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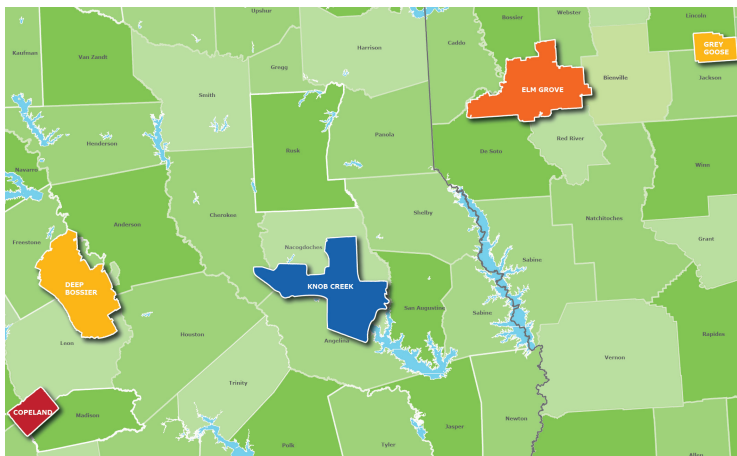
A quarry truck dumping a new supply of material that may have some fossils.



Juan and Mari Cabasos with their son Hector and three grandchildren, Juan III, Riley and Madison.

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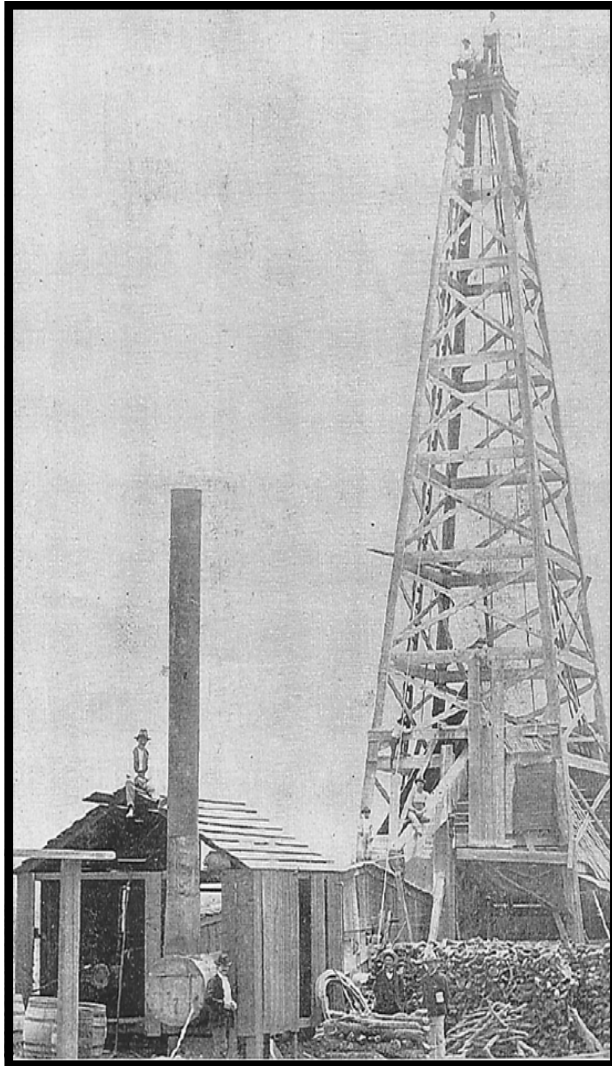
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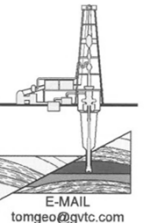


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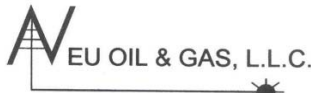
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