BULLETIN

Corpus Christi Geological Society



and

Coastal Bend Geophysical Society



September 2014 ISSN 0739 5620

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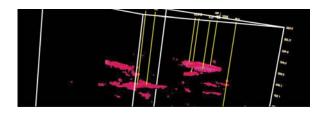
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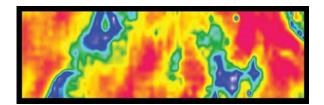
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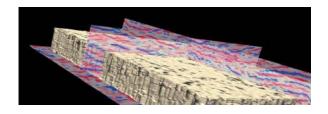
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CORPUS CHRISTI GEOLOGICAL SOCIETY P.O. BOX 1068 * C.C. TX. 78403 2014-2015

www.ccgeo.org

0	F	F	I	<u>C</u> .	E	R	<u>S</u>

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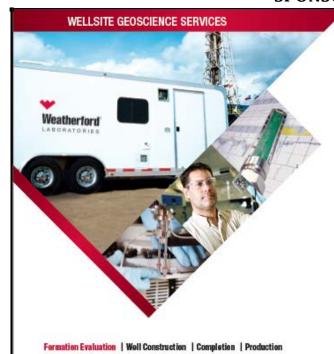
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CCGS/CBGS JOINT MEETING SCHEDULE 2014-2015

	September					October					November									
S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S
			2014	Ļ						2014							201	4		
	1	2	3	4	5	6				1	2	3	4							1
7	8	9	<u>10</u>	11	12	13	5	6	7	8	9	10	11	2	3	4	5	6	7	8
14	15	16	17	18	19	20	12	13	14	<u>15</u>	16	17	18	9	10	11	12	13	14	15
21	22	23	24	25	26	27	19	20	21	22	23	24	25	16	17	18	<u>19</u>	20	21	22
28	29	30					26	27	28	29	30	31		23 30		25	26	27	28	29

Sept. 10, 2014 5:30p.m.—8:30p.m. Kickoff BBQ Howard's BBQ & Catering 1002 Antelope Street Oct. 15—11:30a.m.—1:00p.m. Speaker: Ken Williams— Halliburton. "Barostratigraphy" Nov. 19—11:30a.m.—1:00p.m. Speaker: Tony Hauglum--Rivera Exploration. "Eagleford Update"

	December								Janu	ary					F	ebrua	ıry			
S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S
			201	4						201	.5						2015			
	1	2	3	4	5	6					1	2	3	1	2	3	4	5	6	7
7	8	9	<u>10</u>	11	12	13	4	5	6	7	8	9	10	8	9	10	11	12	13	14
14	15	16	17	18	19	20	11	12	13	14	15	16	17	15	16	17	18	19	20	21
21	22	23	24	25	26	27	18	19	20	21	22	23	24	22	23	24	25	26	27	28
																	_0			
28	29	30	31				25	26	27	28	29	30	31							

Dec. 10—11:30a.m.--1:00p.m. Speaker: Woodson Godfrey— PaleoSource. "Distinguishing a Resource Play Feb. 18—11:30a.m.—1:00p.m. Speaker: Collegiate Month. "Presentation by TAMUCC, TAMUK and DelMar"

CCGS/CBGS JOINT MEETING SCHEDULE 2014-2015

			Marcl	h						April							May			
S	M	T	W 2015	Th 5	F	S	S	M		W 2015		F	S	S	M		W 2015	Th	F	S
1	2	3	4	5	6	7				1	2	3	4						1	2
8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9
15	16	17	<u>18</u>	19	20	21	12	13	14	<u>15</u>	16	17	18	10	11	12	13	14	15	16
22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	<u>20</u>	21	22	23
29	30	31					26	27	28	29	30			24	25	26	27	28	29	30
														31						

Special Guest Lecturer to be Announced.

Calendar of Meetings and Events Calendar of Area Monthly Meetings

Corpus Christi Geological/Geophysical Society	
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	2 nd Tues every other month
	In San Antonio



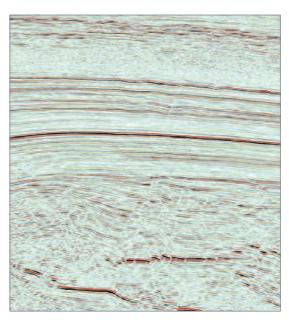




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CCGS PRESIDENT'S LETTER

Welcome to the 2014-2015 Corpus Christi Geological Society's New Year. It is truly an honor to be serving as President. It seems just a short while ago, I was passing out resumes at a monthly luncheon looking for my first job in the "real world". The society has been a blessing to me, and was truly instrumental in getting my career started. Therefore, I have always tried to stay involved and active. Thank you to everyone who has been part of my journey. A special thanks to Bob Critchlow for his great contributions as last years' president. I have a great line-up of board members and committee chair persons, and I am looking forward to working with you all.

The CCGS Annual Kickoff BBQ will be held September 10, 2014 from 5:30 to 8:30 pm. WE HAVE A NEW VENUE. This years' event will be held at HOWARD'S BBQ located downtown on 1002 Antelope St. Please come out and celebrate the beginning of a new society year. I encourage our student members to show up and be involved. This venue and social meeting style provides a great opportunity for you to meet professionals in the business.

We just wrapped-up our 5th annual CCGS Saltwater Fishing Tournament, and we had tremendous support this year from our sponsors. We had a great turn-out. It is nice to hear all of the positive feedback from our participants, and we are always open to any suggestions that would help us grow our tournament. We are currently closing out the books, and it looks like we raised over \$7,000.00 for the second year in a row. I plan on donating a majority of this money to the CCGS Scholarship Trust Fund. I'm sure the Scholarship Committee will continue to find deserving students and the next generation of young geologists.





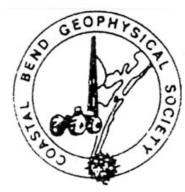


I am looking forward to the year ahead. Our society is fiscally very healthy, and we have a unique opportunity to impact our communities and surrounding areas currently experiencing a boom in both economic strength and job growth. We have many community outreach programs, and I would like to encourage all of you to get involved. These are exciting times. Our History Committee has a new documentary in the works, we have some great new ideas and speakers lined up for our monthly meetings, multiple new professional continuing education opportunities, and we plan on hosting some fun after-hour events throughout the year. Also, the GCAGS Annual Convention will be held in Corpus Christi in the fall of 2016. Please volunteer. The CCGS is *your* society.

Leighton Devine—CCGS President



The Corpus Christi Geological Society and The Coastal Bend Geophysical Society



Invite you to join them for the 2014

Annual Kickoff Bar-B-Q

Wednesday, September 10, 2014
5:30 to 8:30 p.m.

at

Howard's BBQ & Catering

1002 Antelope Street \$25 per person Texas Home-Style Bar-B-Q Buffet

Complimentary Refreshments Courtesy of



Kindly RSVP by Monday, September 8, 2014

Allison Corcoran

Allison@aaoperating.com



CBGS PRESIDNT'S LETTER

Welcome back from summer. You need to put some dates on your calendar.

October 10th –CBGS Golf Tournament—Northshore Country Club. Flyer with details in the bulletin. Contact Fermin Munoz to play or sponsor. Scholarship applicants being reviewed.

October 22nd – CBGS Geophysical Workshop – Attributes of Attributes by Fred Hilterman. Free to CBGS members and students. Flyer with details in the bulletin. Contact Vicki Marlett for information.

Speakers are getting worked out, and it is looking like a good year. If you now of a good talk you would like to see, let Randy Bisssell or I know especially if it is interpretation related. If you plan on going to GCAGS, SEG or AAPG let us know what good talks you heard.

Parting thought: "A good vacation is over when you begin to yearn for your work."— Morris Fishbein

Lonnie Blake—CBGS President

Seismic Crews - US Onshore	Current Month	Last Month	Difference	(Per SEG/Seismic Crew Reports Survey
Ç	Onshore/Offshore	Onshore/Offshore		
	48/13	47/22	+10	
	Current Month	Last Month	Last Year - Monthly	(Per Texas RRC, last reported)
Texas Production	MMBO/BCF	MMBO/BCF	MMBO/BEF	
Oil	66.2	66.7	63	
Gas	617	624	701	
4	Current Month	Yr to date - 2014	Yr to date - 2013	
Texas Drilling Permits	2,185	11,880	11,578	
Oil wells	639	3,424	3,705	
Gas wells	94	642	711	
Oil and Gas wells	1,345	7,302	6,720	
Other	22	98	93	
Total Completions	2,099	15,828	12,740	
Oil Completions	1,739	13,672	9,626	
Gas Completions	316	1,633	2,707	
New Field Discoveries	4	22	26	
Other	44	523	407	





RENEW...RENEW...RENEW...RENEW...RENEW...RENEW...RENEW

Please RENEW for the 2014-15 Membership Period using those handy forms we mailed in August.

Everyone should have received their 2014-2015 Membership Renewal forms in the US Mail.

- **PRINTED BULLETINS** are available to any member for \$10/year. We must have a valid mailing address. Please confirm your mailing address on the renewal form.
- Emails! Please legibly re-write your <u>preferred email address</u> at the bottom of the form. We are striving to maintain 100% of the Society reachable by email. Your email is vital if you've chosen not to receive the printed Bulletin.
- **Please <u>return the form promptly...</u>**yes, <u>before</u> (or at) the Kickoff party. Return of your form is *vital* to keeping our records in order, that's why we enclose a return envelope.
- IMPORTANT: Even if you plan to pay at the Kickoff, please bring your renewal form and payment in the envelope! Honorary and student members, please return your forms, too! Students need to update emails, employment, and contact info.
- **Pictures.** We're continuing to add pictures to our database, still not quite enough to justify a new photo directory. Send us a photo (email it to dorothyj@headington.com) if we get enough pictures this renewal period, we'll plan on a photo directory in June.

We mailed **500 renewals** this year and it is <u>very expensive</u> for our Societies. Some Gulf Coast societies have abandoned mailings completely. Each year, we dig back a few years to catch those who may have simply forgotten to renew. Again, your <u>prompt return of your renewal form</u> is *your* part of this process. Please make this effort worthwhile for our Society.

RENEW...RENEW...RENEW...RENEW...RENEW...RENEW

For new members, active or student. Email **randyb@headington.com** to get a membership form. Just print it, fill it out and send it along with your check (no fee for students) to: CCGS Membership, 500 North Shoreline Blvd., Ste. 902N, Corpus Christi, Texas 78401-0343.

Contact Randy Bissell at randyb@headington.com or (361) 885-0110 with any questions.

Thanks for your quick response – earlier makes it much easier! And remember:

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We are constantly looking for great luncheon presentations for our monthly events.

Some of the best talks are those from <u>our membership</u> – individuals and companies with fresh ideas and emerging technologies or new discoveries to showcase.

Or...Is there a presentation you've heard at SEG, SPE, AAPG, GCAGS, HGS, SIPES, TAMUCC, TAMUK, Del Mar or another forum? Please let us know. We may like it, too.

Ideas? Presentations? References? To Volunteer?

Please Contact: Randy Bissell, CCGS VP 2014-2015 randyb@headington.com or (361) 816-4920 or (361) 885-0113



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Gulf Coast Association of Geological Societies and Gulf Coast Section of SEPM

64th Annual Convention

October 5-7, 2014-Lafayette, Louisiana

ANNOUNCEMENT



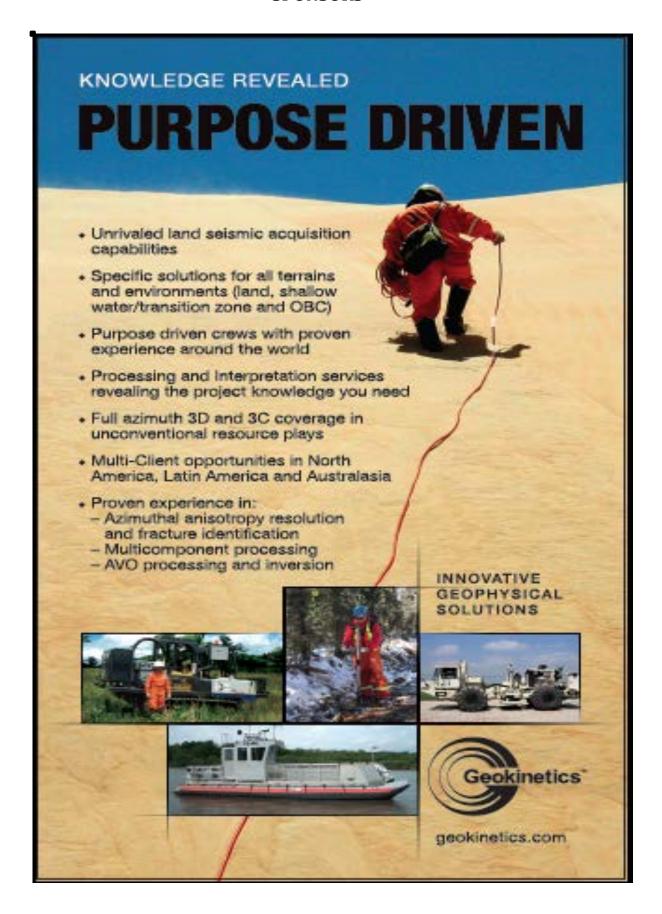




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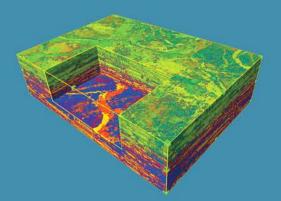




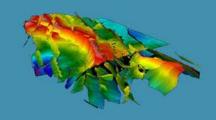
THE ATTRIBUTES OF ATTRIBUTES

-Seismic Workshop-

When: Wednesday, October 22nd, 8:30am-12:30pm Registration begins at 8:00am



Where: EOG Resources 539 N Carancahua St., Suite 900 Corpus Christi, Texas, 78401



Speaker: Fred Hilterman

To register call or email Vicki Marlett: 972-690-1122 ext.132 vmarlett@geotrace.com

Continental Breakfast Sponsored by GeoTrace/Vicki Marlett



Hello All!

We are less than 2 months from our society's annual golf tournament. This year it will be held at NorthShore Country Club in Portland on Friday October 10th. The format will be a 4-Player Scramble and will begin with a Shotgun Start at 1 p.m. This golf tournament is one of the society's oldest traditions, and the proceeds go directly to the scholarship fund. So dust off those sticks, get a team together and come on out and have some fun. Please consider sponsoring a hold, a beverage cart, closest to the pin, longest drive, door prize fund or just donate towards the tournament; everything is appreciated. This is also an excellent opportunity to advertise your business if you have printed (or non-printed) materials (tees, koozies, pens, golf balls, etc.) to hand out on the day of the tournament.

I apologize for the short fuse on this; your early response will be greatly appreciated. Thank you for your support.

Best Regards Fermin Munoz CBGS-Golf Chair



CBGS GOLF TOURNAMENT

Coastal Bend Geophysical Society
NorthShore Country Club
October 10, 2014
1:00 p.m. Shotgun Tee Time
Four-Man Scramble
100 Player Limit * Sign up Early



Name	<u>Sponsorships</u>		
Email			
Company Name	# Golf Beverage Cart \$700 ea		
Address	# Golf Holes (18) \$200 ea		
City, State, Zip	# Longest Drive		
Phone	(2) \$100 ea.		
Yes, Please Place on a Team	# Closest to the Pin		
I want to be on a Team with: (list below)	(2) \$100 ea.		
Player 2:	Door Prize Sponsor		
Player 3:			
Player 4:	Total Sponsorship \$		
\$100 per Golfer			
\$400 per Team (4 players)	■		
Sponsorship Total	NorthShore Country Club		
TOTAL AMOUNT DUE	801 E. Broadway St.		
PAYMENT INFORMATION	Portland, TX 78374		
Check Enclosed	Entry Fee Includes:		
Make Checks payable to:	Green Fees		
Coastal Bend Geophysical Society	Range Balls		
c/o Fermin Munoz	Carts		
619 E. Broadway	Beverages on the Golf Course		
Portland, TX 78374	Door Prizes		
361-960-1126	Dinner Buffet		
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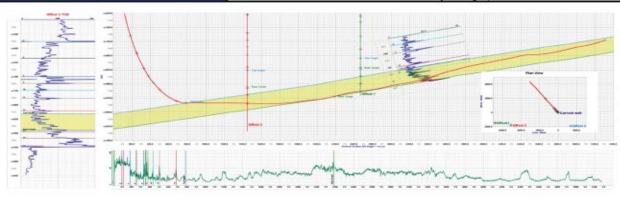
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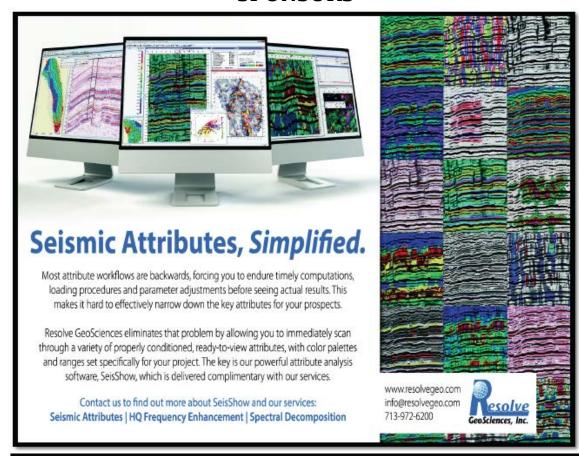
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Resistivity modelling / interpretation for jobs with LWD propagation resistivity

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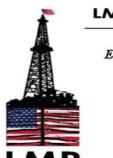


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Corpus Christi Geological Society Scholarship Application Guidelines

Spring 2015 Semester

- 1. Applicant must be majoring in Earth Sciences and currently attending 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 18, 2014

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 <u>are</u> 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, 2014** and are encouraged to attend.

Board Members:

Dawn Bissell - Chairman Brent Hopkins - Vice Chairman Leighton Devine - CCGS President Patrick Nye - Secretary/Treasurer Bob Critchlow - Member Beth Priday - Member JR Jones - Member



Corpus Christi Geological Society Scholarship Application Form Spring 2015

(Must be postmarked by October 18, 2014)

Last Name:	First Name	:	
Mailing address: (where award may be mailed if applicant is unable to	attend award pr	esentation)	
City:	State:	Zip Code:	
Active Email:			
Award notifications will be sent via esonce you've submitted your application		ase email bissell s@sw	bell.net
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Total Hours Completed:	Overall GF	PA (Minimum 2.5):	
Total Hours - Geology:	Geology G	PA(Minimum 3.0)	
Hours Planned for Scholarship Semes	ster:	Geology Hours:	
Will this scholarship be used toward	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 18, 2014.** Email bissells@swbell.net once you've mailed your application. **Award notifications will be made via email!!!**

SCHOLARSHIP COMMITTEE NEWS

The Corpus Christi Geological Society awarded \$10,250 in scholarships to 15 local students in April 2014. Del Mar College, TAMU-CC, and TAMU-K were all represented with scholarship recipients.

Del Mar College students were: Payton Campbell, James Quisenberry, Guadalupe (Gigi) Roach,, Allyse Sanchez, and Hannah Youngblut. Hannah was our youngest (maybe ever) applicant. She attended Corpus Christi Collegiate High School and graduated in May of 2014 with an Associates in Liberal Arts from Del Mar College as well.

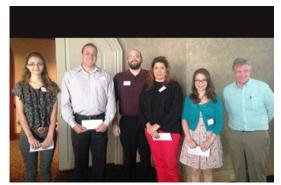
Texas A&M Corpus Christi Students were: Nargiz Dadashova, Robert Murphy, Ryan Reyna, Brittney Tamborello, and Ron Taylor.

Texas A&M Kingsville students were: Sara Beers, Damon Crutcher, John Dabney, Daniella Herrera, and Katelyn Wallace.

The CCGS Scholarship fund received donations from member contributions, the CCGS Fishing Tournament and the Corpus Christi Oilman's Tennis Tournament proceeds. These donations are vital to allow the committee to fund the scholarships for our deserving students. Every donation is very much appreciated.

The next awards will be given in November 2014 for the Spring 2015 semester.

Dawn S. Bissell--Scholarship Committee Chairman



DelMar College students with Bob Critchlow (CCGS Past President)



TAMUCC students with Bob Critchlow (CCGS Past President)



TAMUK students with Bob Critchlow (CCGS Past President)



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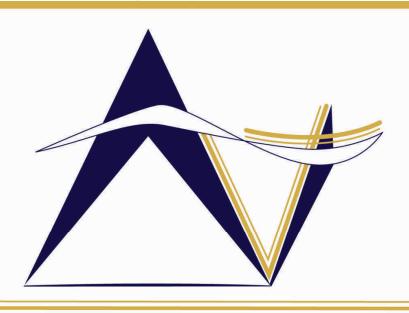
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When you give blood: They have us listed as <u>C.C. Geological</u> <u>Society</u>. Our number with them is <u>4254</u> & it would be helpful if you can please give them that number also.

There is a nationwide shortage of blood – and we appeal to our members to give the gift of life. Please tell the Blood Center that you are giving on behalf of the **C.C. Geological Society**. For info. their ph. no. is **855-4943**.

This message approved by Mike Lucente....





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Geologic Presentations

There have been 17 educational and community outreach presentations to over 1,300 students so far in 2014! Below are some of the activities. Many folks were involved in more than one presentation and we appreciate all the time and effort that goes into the presentations

It is a great opportunity to be invited to these presentations and the children are always interested, excited, and engaged in Geology.

Topics covered included the *Rock Cycle* (Lisa McLaughlin), *Bring a Geologist to School* (Rett Fisher), *Science Fair Judges* (Sebastian Wiedmann, Ray Govett, David Kirk), *Science Nights* at elementary and middle schools (Alan Costello, Rett Fisher, Elia Gil, Lisa McLaughlin), *School Presentations* (Linda and Jerrold Simpson), *Summer Library Programs* (Alan Costello, Geoffrey Hopkins, Karen Linares).

A big thank you to Alan Costello for manning another successful Earth Day Bay Day table in April. He, Mike Lucente, and Sebastian Wiedmann supervised the table, but students from TAMUCC manned the wheel and made many of the presentations throughout the day.

We really appreciate the TAMUCC Students who helped with Earth Day Bay Day:

Marisa Austin Ashley Bennett Robbie Carte Ali Brown Steven Flores Regan Elam Miranda Fuqua Danielle Garcia Serena Garcia Audrey Gonzalez Jenna laSala Marcie Hathaway Ishmael Lara Maria Lopez Adam Morgan Carolina Nurz Jasmine Orona Erica Pina Rheba Reyna Ryan Reyna Savannah Saenz Lauren Rodriguez Sarah Serna Sarah Sloan

James StanleyBrittney TamborelloGarrett TheringHolly Thomas

Lillian Vasquez

If you are interested in being part of these presentations, contact Dawn Bissell, 361-960-2151 or bissells@swbell.net.

GEOLOGIC PRESENTATIONS



Geoffrey Hopkins, Scarlett Hopkins and Stella Hopkins give a geologic presentation for the Summer School Program at Gloria Hicks Elementary.



Dawn Bissell giving a Geologic Presentation at the Janet F. Harte Public Library.

GEOLOGIC PRESENTATIONS



Alan Costello giving a Geologic Presentation at the Owen R. Hopkins Public Library.

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http://www.lib.utexas.edu/books/landsapes/index.php Free service. Rare, fragile, hard-to-find, public domain documents covering various topics about the landscape of Texas. Includes the Texas Geological Survey from 1887 until 1894.

USGS TAPESTRY OF TIME AND TERRAIN http://tapestry.usgs.gov The CCGS is donating to all of the 5th and 6th grade schools in the Coastal Bend. Check it out--it is a spectacular map. You might want to frame one for your own office. The one in my office has glass and a metal frame, and It cost \$400 and it does not look as good as the ones we are giving to the schools.

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

FREE NATIONAL TOPO'S http://store.usgs.gov/b2c_usgs/b2c/start/ (xcm=r3standardpitrex_prd)/.do go to this webpage and look on the extreme right side to the box titled TOPO MAPS <a href="https://doi.org/10.2016/j.jcm/doi

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

http://antwrp.gsfc.nasa.gov/apod/asropix.html Astronomy picture of the day--awesome. I click this page everyday.

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

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

www.ccgeo.org Don't forget we have our own we page.

http://terra.nasa.gov/gallery/ Great satellite images of Earth.

<u>www.ermaper.com</u> They have a great free downloadable viewer for TIFF and other graphic files called ER Viewer.

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

TYPE LOGS OF SOUTH TEXAS FIELDS by Corpus Christi Geological Society NEW (2009-2010) TYPE LOGS IN RED; *****2011; lost now found MCMULLEN COUNTY **ARANSAS COUNTY** Vista Del Mar Plymouth Maurbro **COLORADO COUNTY** StewartSwan Lake Aransas Pass/McCampbell Deep Arnold-Weldon Portilla (2) **Bartell Pass** Swan Lake, East Brazil Taft Graceland N. Fault Blk Blackjack Texana, North Devil's Waterhole Taft, East Graceland S. Fault Blk West Ranch White Point, East Burgentine Lake Hostetter **DEWITT COUNTY** JIM HOGG COUNTY **STARR COUNTY** Copano Bay, South Hostetter, North **Anna Barre NUECES COUNTY** Estes Cove Chaparosa El Tanque Fulton Beach Thompsonville, N.E. Agua Dulce (3) Garcia Cook *****Nordheim JIM WELLS COUNTY Goose Island Arnold-David Hinde Half Moon Reef Smith Creek Arnold-David, North La Reforma, S.W. Freebom Nine Mile Point Hoelsher Baldwin Deep Lyda Warmsley Yorktown, South Ricaby Rockport, West Palito Blanco Calallen St. Charles **DUVAL COUNTY** Wade City Chapman Ranch Rincon Tally Island KARNES COUNTY Corpus Christi, N.W. Rincon, North Corpus Christi West C.C. Tract 831-G.O.M. (offshore) Four Seasons Burnell Ross Coy City Good Friday **Encinal Channel** Virginia San Roman **BEE COUNTY** Flour Bluff/Flour Bluff, East Hagist Ranch Person Sun GOM St 9045(offshore) Caesar Herbst Runge Yturria **KENEDY COUNTY VICTORIA COUNTY** Mosca Loma Novia Indian Point Helen Gohike, S.W. Nomanna Petrox Candelaria Mustang Island Seven Sisters Julian Mustang Island, West Keeran, North Orangedale(2) Ray-Wilcox Seventy Six, South Julian, North Mustang Island St. Marcado Creek San Domingo Starr Bright, West Laguna Madre 889S(offshore) McFaddin **GOLIAD COUNTY Tulsita Wilcox** Rita Nueces Bay/Nueces Bay Meyersville Strauch Wilcox Berclair Stillman Placedo **BROOKS COUNTY KLEBERG COUNTY WEBB COUNTY** North Blanconia Perro Rojo Pita Island Aquilares/Glen Martin Ann Mag Rombs Alazan Ramada Big Cowboy Boedecker Bovce Alazan, North Cage Ranch Cabeza Creek, South Big Caesar Redfish Bay Bruni, S.E. Encintas Goliad, West Borregos Riverside Cabezon FRF St Armo Chevron (offshore) Riverside, South Carr Lobo Gyp Hill Terrell Point Laguna Larga Saxet Davis **Gyp Hill West HIDALGO COUNTY** Seeligson Shield Hirsch Loma Blanca Alamo/Donna Sprint (offshore) Stedman Island Juanita LA SALLE COUNTY Turkey Creek Las Tiendas Mariposa Edinburg, West **REFUGIO COUNTY** Mills Bennett Pearsall Nicholson LAVACA COUNTY Flores-Jeffress Bonnieview/Packery Flats O'Hem Pita Tio Ayola Halletsville Greta Olmitos Foy Tres Encinos Tom Walsh Hidalgo Hope La Rosa **CALHOUN COUNTY WHARTON COUNTY** LA Blanca Southwest Speaks Lake Pasture McAllen& Pharr Southwest Speaks Deep Refugio, New Black Owl LIVE OAK COUNTY Coloma Creek, North McAllen Ranch Tom O'Connor WILLACY COUNTY Mercedes Atkinson **SAN PATRICIO COUNTY** Chile Vieja Hevsei Monte Christo, North Braslau **Angelita East** La Sal Vieja Lavaca Bay Commonwealth Paso Real Long Mott Penitas Chapa Magnolia Beach San Fordyce Clayton Encino Tenerias Mosquito Point San Carlos Dunn **Enos Cooper** Willamar **ZAPATA COUNTY** Olivia San Salvador Harris Geronimo S. Santallana Panther Reef Houdman Harvey Benavides

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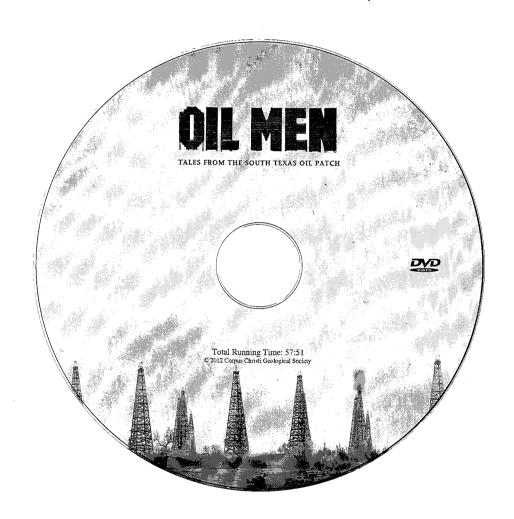
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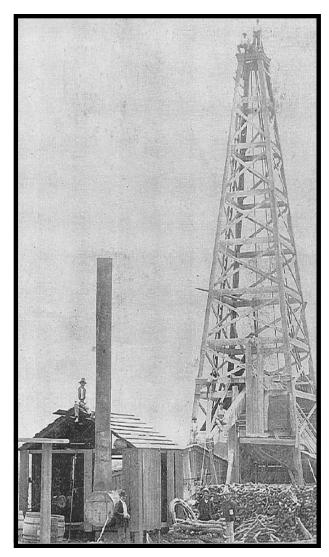
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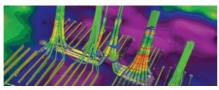




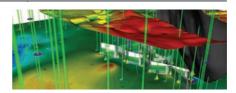
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