BULLETIN Corpus Christi Geological Society



and

Coastal Bend Geophysical Society



November/December 2016 ISSN 0739 5620

American Shoreline, Inc.



Specializing in Oil & Gas Exploration & Wind Energy

Compliments of

Paul Strunk, Chief Executive Officer John Heymann, Chief Operating Officer Dennis Taylor, President & Chief Geologist Jena Nelson, VP Finance & Administration

> 802 N. Carancahua Frost Bank Plaza, Suite 1250 Corpus Christi, Texas 78401 (361) 888-4496

www.amshore.com

*****BLOOD DRIVE***** THE BLOODMOBILE – IN <u>NOVEMBER- 2016</u> WILL BE AT SOME CONVENIENT LOCATIONS PLEASE CALL <u>855-4943</u> for those locations or <u>see below:</u>



"These Rocks are real heavy"

OK Pumpkin Heads... Drop the Rocks and...

GO OUT & DONATE YOUR BLOOD!!!

ATTENTION!!!

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.

Thanks! Mike Lucente <u>www.coastalbendbloodcenter.com</u>

SPONSORS



TABLE OF CONTENTS

Blood Drive 1	L
Officers, Committees and Chairpersons for CCGS/CBGS 4	4&5
Calendar of Meetings and Events	5&7
CCGS President's Letter	3
Convention Sponsors and Exhibitors)
CBGS President's Letter1	LO
Luncheon Meeting Announcement for November 2016	12,13,14
Geologists, the Public, and Public Policy: What Are Our Ethical Responsibilities?1	16
CCGS papers available for purchase at the Bureau of Economic Geology	65
Geo Link Post	56
Type Logs of South Texas Fields	67
Order Oil Men DVD	68
Wooden Rigs Iron Men	59
Professional Directory	70



CORPUS CHRISTI GEOLOGICAL SOCIETY P.O. BOX 1068* C.C. TX. 78403 2016-2017

www.ccgeo.org

OFFICERS

President	Barbara Beynon	361-774-3369	<u>bbeynon77@yahoo.com</u>
President Elect			
Vice President	William Thompson	361-242-3113	William.Thompson@rrc.texas.gov
Secretary	Casey Mibb	361-726-1092	<u>clmibb@yahoo.com</u>
Treasurer	Austin Nye	361-452-1435	austin@nyexp.us
Past President	Mike Lucente	361-883-0923	mikel@lmpexploration.com
Councilor I	Rick Paige	361-884-8824	<u>rickp@suemaur.com</u>
Councilor II	Randy Bissell	361-885-0113	<u>randyb@headington.com</u>

AAPG DELEGATE

EDITORS

Bulletin Editor	Marian Wiedmann	361-855-2542	wiedgulf@gmail.com
Bulletin Tech. Editor			
Web Master	Josh Pollard	361-654-3100	<u>support@interconnect.net</u>

GEOLOGICAL SOCIETY COMMITTEES & CHAIRPERSONS

Advertising/Bus. Cards	Robby Sterett	361-739-5618	<u>robert.sterett@gmail.com</u>
Arrangements	Wes Gisler &	830-239-4651	wes@gislerbrotherslogging.com
	Will Graham	361-885-0110	willg@headingtonenergy.com
Bloodmobile	Mike Lucente	361-883-0923	mikel@lmpexploration.com
Earth Day	Alan Costello	361-888-4792	acostello@royalcctx.com
Continuing Ed.	Stephen Thomas	361-660-8694	<u>sthomas@spnaturalresources.com</u>
Education	Dawn Bissell	361-960-2151	<u>bissells@swbell.net</u>
Scholarship	Dawn Bissell	361-960-2151	<u>bissells@swbell.net</u>
Fishing Tournament	Leighton Devine	361-882-8400	ldevine@suemaur.com
History	Ray Govett	361-855-0134	<u>ray30@hotmail.com</u>
Membership	Dorothy Jordan	361-885-0110	<u>dorothyj@headington.com</u>
	Randy Bissell	361-885-0113	randyb@headington.com
Type Logs	Frank Cornish	361-883-0923	frank.cornish@gmail.com
University Liaison	Casey Mibb	361-726-1092	<u>clmibb@yahoo.com</u>
	Wesley Garcia		



COASTAL BEND GEOPHYSICAL SOCIETY P.O. BOX 2741*C.C. TX. 78403 2016-2017

OFFICERS

President Vice President Secretary/Treasurer Golf Chairman Scholarship Chairman Education
 Lonnie Blake
 361-883-2831

 Dr. Subbarao Yelisetti
 361-593-4894

 Matt Hammer
 361-888-4792

 Fermin Munoz
 361-960-1126

 Ed Egger
 361-947-8400

 Dr. Robert Schneider
 361-947-8400

lonnie_blake@eogresources.com subbarao.yelisetti@tamuk.edu mhammer@royalcctx.com fmunoz04@hotmail.com edegger69@gmail.com

Visit the geological web site at www.ccgeo.org

CCGS/CBGS JOINT MEETING SCHEDULE 2016-2017

		Sep	temb	ber					Oct	ober						Nov	emb	er		
S	Μ	T	W 2016	Th	F	S	S	M	T 20	W)16	Th	F	S	S	Μ	T 2	W 016	Th	F	S
		-														_	0 - 0			
				1	2	3							1			1	2	3	4	5
4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12
11	12	13	14	15	16	17	9	10	11	12	<mark>13</mark>	14	15	13	14	15	<mark>16</mark>	17	18	19
<mark>18</mark>	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26
25	26	27	28	29	30		23	24	25	26	27	28	29	27	28	29	30			
							30	31												

GCAGS Convention "Explore The Future" September 18-20, 2016 Corpus Christi, TX. GCAGS Post-Convention Party & Society Kickoff Bar-B-Q Thursday, October 13 5:30 to 8:00 p.m. 11:30am-1:00pm. Speaker: Bruce Moriarty, Principal Geophysical Advisor, Lumina Geophysical "Simultaneous Inversion of Spectrally-Broadened 3D Seismic Data: Case Study for the Olmos Unconventional Play, South Texas"

]	Dece	emb	er					Ja	nuar	y					Fe	brua	ry		
S	N	/	Г	W	Th	F	S	S	Μ	Τ	W	Th	F	S	S	Μ	Τ	W	Th	F	S
			20	16						2	2017							2017	,		
					1	2	3	1	2	3	4	5	6	7				1	2	3	4
4	ŀ	5	6	7	8	9	10	8	9	10	11	12	13	14	5	6	7	8	9	10	11
1	1	12	13	14	15	16	17	15	16	17	<mark>18</mark>	19	20	21	12	13	14	<mark>15</mark>	16	17	18
1	8	19	20	21	22	23	24	22	23	24	25	26	27	28	19	20	21	22	23	24	25
2	25	26	27	28	29	30	31	29	30	31					26	27	28				

Combined November/December for the Holidays.

				LL	Կ3/	CBU	r3 J0	JIII	Me	eun	ig Sc	neu	ule	20	10-4	201	/			
		l	March						1	April						M	lay			
S	Μ	Т	W	Th	F	S	S	Μ	Т	W	Th	F	S	S	Μ	Т	W	Th	F	S
			2017							201	7						201	7		
			1	2	3	4							1		1	2	3	4	5	6
5	6	7	8	9	10	11	2	3	4	5	6	7	8	7	8	9	10	11	12	13
12	13	14	15	16	17	18	9	10	11	12	13	14	15	14	15	16	<mark>17</mark>	18	19	20
19	20	21	22	23	24	25	16	17	18	<mark>19</mark>	20	21	22	21	22	23	24	25	26	27
26	27	28	29	30	31		23	24	25	26	27	28	29	28	29	30	31			
							30													

CCGS/CBGS Joint Meeting Schedule 2016-2017

Combined February/March for Spring Break

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 Tues.—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, Metalllurgy & Exp	2 nd Tues every other month in
	San Antonio



PRESIDENT'S PAGE

The days are shorter, but as I write this column we are still waiting for the first strong cold front of the fall. The year is well under way, and we have yet to hold our first luncheon meeting. I hope to see everyone at our meeting on Wednesday, November 16 at the Ortiz Center. The price is still only \$25 per member with reservation.

That will leave the remaining luncheon meetings for the 2016- 2017 year to be held in January, February, April, and May. The Executive Committee is working to offer more opportunities by possibly hosting one or two field trips in early 2017:

• Randy Bissell ran a field trip "Geomorphology and Geologic History of the Nueces River Valley, Corpus Christi Bay, Laguna Madre, and Padre Island." This one-day field trip was well received by all who attended. Many of us in CCGS could not attend because we were working or attending other offerings in the convention.

• Tom Ewing offered to run an overnight field trip to the Rio Grande Delta with stops on the South Texas Sand Sheet. We did not have the minimum number of people to "make" the trip, so it was not run. This trip would be a little more expensive because of the overnight stay in the Harlingen area.

CCGS still remains in need of two more volunteers for this year:

• **President-Elect:** This officer serves on the Executive Board this year and becomes the new President at the end of the current President's term. This year, it's the learning curve.... next year you get to manage the Society.

• **Technical Editor for the** *Bulletin:* The past Editor, Sebastian Wiedmann, no longer wishes to serve as Editor.

If you are interested in serving in either of these positions, please contact any officer of the CCGS.

The Executive Committee is working to revise the CCGS Bylaws. The last time they were amended was in 1986. Watch for more announcements through the year regarding the progress. Voting on ratification will take place next spring.

Respectfully,

Barbara Beynon-CCGS President



The 66th Annual Convention of the Gulf Coast Association of Geological Societies (GCAGS) and Gulf Coast Section of Society of Sedimentary Geologists (GCSSEPM) Convention was a great success!

Please see the list of sponsors and exhibitors that partnered with the convention through their support and sharing their expertise with us on the exhibition floor.

Over 600 people joined us for four days of excellent technical presentations, superb short courses and field trips, and entertaining social events. We received a lot of compliments and kudos – especially from veteran convention attendees, so I take that as a sign of a job well done.

It was definitely a group effort. There are over 32 folks intensely involved, working on this for almost three years. As Randy Bissell noted, probably the greatest measure of success – we produced an outstanding event – and we all still like each other!

My heartfelt and sincere thanks go to the folks who have made the outstanding convention possible

- The technical committee: Rick Paige, Bob Critchlow, and Allen Lassiter
- Short Courses: Stephen Thomas, Tom Fett, Woodson Godfrey, Selim Shaker, and Bob Schneider.
- Field Trips: Randy Bissell, Tom Ewing, Robby Sterett, Jon Baskin, and Jim Garrison.
- GCSSEPM: Dorene West and Carl Fiduk.
- Luncheon and Breakfast speakers: *Charles Sheppard, Mike Blum, Rusty Riese, Jim Moloney, and Robbie Gries.*
- Sponsorships: Lonnie Blake, Alexandra Dyckman, Paul Strunk, Sara Davis, Cheryl Oxsheer, and Dennis Moore.
- Arrangements (all the food and fun stuff): Alexandra Dyckman and Dorothy Jordan.
- Technical Editor and Managing Editor: Jennifer Smith-Engle and James Willis.
- Judging: *Bob Bell*.
- K-12 Teacher Activity: J.R. Jones
- University Liaisons: Thomas McGehee and Mark Ford
- Publicity and Social Media: Sebastian Wiedmann, Randy Bissell, BJ Thompson, and Dianna Phu.
- Guests and spouses activities: Darlene Murry.
- Audio Visual: Fermin Munoz and Dennis Moore.
- Golf: Fermin Munoz
- Volunteers: Casey Mibb and Dorothy Jordan.
- Secretaries: Dorothy Jordan and Alexandra Dyckman
- Registration: Susan Stone, Jeanie Timmerman, and Dorothy Jordan. Members of the Corpus Christi Chapter of Desk and Derrick
- Treasurer: *Leighton Devine*.
- GCAGS President: Brent Hopkins.
- 2015 General Chairman: Larry Bartell

Of course you can't have a technical convention without content! Thank you to all the session chairs – over 30 people; and over 150 presenters. You were the "why" we met.

The Corpus Christi Geological Society is made up of great people. All of you have done a fine job. It has been such a pleasure working with you. Thank you so much!

Dawn S. Bissell-General Chair, GCAGS 2016 Convention



CBGS PRESIDENT'S LETTER

<u>News</u>-

SEG Convention was this month. Anyone attend? It was pretty quiet from what I heard.

CBGS Business-

CBGS golf tournament was held on Oct. 7th at Northshore Country Club. We had 31 people, which was not a crowd, but we made enough money to fund our scholarships for the 2017-2018 school year. Thanks Fermin for organizing, and thanks to all the participants and sponsors.

Education/Events-

-<u>GSH</u>

"Everything you always wanted to know about microseismic," Houston, Nov. 9-10. There are numerous technical luncheons if you happen to be in Houston. Check the following: Geophysical Society of Houston Calendar.

CBGS has a revenue sharing agreement with GSH. Mention CBGS if you register for GSH events.

-SEG

SEG has 450+ eLearning courses online from \$0.99 to \$150.00(most expensive I saw). <u>http://www.seg.org/professional-development/seg0n-demand</u>

-<u>HGS</u>

Petrological and Geochemical screening methods, Houston, Dec. 9, 2016.

Monthly Saying

I do not h

Think there is any other quality so essential to success of any kind as the quality of perseverance. It overcomes almost everything, even nature. John D. Rockefeller

Texas Oil and Gas Info 🖓	Current Month	Last Month	Difference	
Texas Production	MMBO/BCF	MMBO/BCF	MMBO/BCF	
Oil	72.9	79.6	-6.7	June
Condensate	9.2	10.7	-1.5	
Gas	604	656	-52	June
	Current Month	Yr to date - 2016	Yr to date - 2015	
Texas Drilling Permits	660	4,830	7,407	August
Oil wells	203	1,412	1,828	
Oil and Gas	392	2,848	4,598	
Gas wells	24	250	546	
Other	15	88	104	
Total Completions	822	8,107	14,665	August
Oil Completions	545	6,166	11,723	
Gas Completions	223	1,527	2,006	
New Field Discoveries	2	16	50	
Other	55	414	936	

Lonnie Blake—CBGS President









LUNCHEON MEETING ANNOUNCEMENT

WEDNESDAY, NOVEMBER 16, 2016

Location:	Congressman Solomon P. Ortiz International Center, 402 Harbor Drive, Corpus Christi, TX 78401 <u>http://ortizcenter.com</u>
Bar Sponsor:	To be announced (sponsors needed!)
Student Sponsor:	Core Laboratories and Corpus Christi Geological Society
Time:	11:30 am Bar, Lunch follows at 11:45 am, Speaker at 12:00 pm
Cost:	\$25.00 (additional \$10.00 surcharge without reservation; <u>No-shows</u> <u>may be billed</u> and non-RSVP attendees cannot be guaranteed a lunch); <i>FREE</i> for students with reservation (discounted by our generous sponsors)!
Reservations:	Please RSVP by 4PM on the FRIDAY before the meeting! E-Mail: <u>wes@gislerbrotherslogging.com</u>

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



http://www.ccgeo.org

PLEASE THANK OUR GENEROUS SPONSORS!!!

SPONSORSHIPS FOR THE TUESDAY PINT NIGHT SOCIAL GATHERINGS AND WEDNESDAY LUNCHEON MEETING BARS ARE OPEN!!!

Please consider a CCGS/CBGS sponsorship!!! It's a great way to advertise both your company and the services it provides!!!

Inversion of Spectrally-Broadened 3D Seismic Data: Case Study for Olmos Unconventional Play, South Texas

Presented by: Bruce Moriarty, Principal Geophysical Advisor, Lumina Geophysical

Summary

In South Texas, tight gas sandstone reservoirs in the Olmos Formation are prospective. Unfortunately, detecting and mapping the lateral continuity of reservoir quality Olmos sands is limited by the fact that prospective pay zones are commonly below conventional seismic resolution. Thus, spectral broadening is potentially valuable if it can be shown to be useful in this area. This paper describes seismic interpretation and simultaneous inversion results of an original and a spectrally-broadened high-resolution seismic dataset across the South Texas Olmos tight sand. The incorporation of high-resolution seismic data addresses the lack of enough vertical resolution to image thin beds within the Olmos productive zone. This high-resolution seismic data results from the application of the sparse-layer inversion method (Zhang and Castagna 2011) to the original pre-stack seismic data. The method is unbiased against thin beds and thus allows the detection and resolution of thin beds below tuning thickness.

Abstract

The primary objective of this work was to identify sweet spots in the unconventional tight sand reservoir of the Olmos formation using pre-stack simultaneous inversion. The second objective was to compare the original seismic data with high-resolution seismic data, along with the resulting simultaneous inversions. High-resolution seismic data is the result of sparse layer inversion method applied to the original pre-stack seismic data. This method inverts the frequency spectrum for layer thickness and enables the detection and resolution of thin beds below tuning thickness.

Simultaneous inversion is a process which generates P impedance, S impedance, and density at the same time, though only the P impedance results will be shown today. The P impedance volume generated from the original seismic lacked sufficient vertical resolution to image thin beds (~ 25-30 ft/ 7.6-9 m) within the productive interval of the Olmos formation. High-resolution seismic was used to address this challenge. The process of spectral layer inversion improved the resolution from about 98 feet to 47 feet. At this resolution, two additional horizons can be mapped to separate individual porosity zones within the productive Olmos interval.

Using the P impedance volume generated from the high-resolution seismic, we were able to map a new low impedance anomaly within the study area. This new anomaly correlates with the lower interval of the high porosity zone associated with better Olmos production, and should provide new potential for field development.

This general approach may be very useful in many plays worldwide.



About our Presenter:

Bruce Moriarty attended Colgate University in Syracuse, New York, earning his Bachelor Degree in Geology in 1972. He also attended the University of South Carolina – Columbia.

Bruce was a Project Manager for Visos, coordinating 3-D seismic surveys in the Gulf Coast, Mid-Continent, and Rocky Mountain Regions in a multi-component program, including the Bureau of Economic Geology and PGS Onshore. He has served as the Principal Geophysicist for El Paso Production, Chief Geophysicist for Dominion Exploration & Production, as well as Geophysical Advisor for Swift Energy. He presently serves as Principal Geophysical Advisor for Lumina Geophysical in Houston, Texas.

Bruce is an expert in utilizing new seismic technologies to extend the production life and economics of existing fields through enhanced well performance and recovery. He has researched and published reports on identifying new targets in mature unconventional plays by utilizing new seismic technologies.

Bruce was the President of the Denver Geophysical Society in 1985, the Treasurer of the Geophysical Society of Houston in 2010. He is also a member of the Society of Exploration Geophysicists (SPE), American Association of Petroleum Geologists (AAPG), and enjoys skiing, golf, and motorcycling.





SABALO ENERGY | P.O. BOX 2907 | CORPUS CHRISTI, TX 78403 | 361.888.7708 | SABALOENERGY.COM

Permission to republish "Geologist, the Public, and Public Policy: What Are Our Ethical Responsibilities?" was granted by the author W. C. Rusty Riese and Brent Hopkins --President of the GCAGS.

Geologists, the Public, and Public Policy: What Are Our Ethical Responsibilities?

By

W.C. Rusty Riese

In the polarizing and supercharged environment of today's public discourse, many views are hotly contested, but three stand out as worthy of attention from geological scientists: fracking, public primary and secondary education, and climate change. All three are interconnected.

Fracking is widely condemned in the public media as a new technology whose safety hasn't been demonstrated and which should therefore be banned, as it has been in New York, and all this in spite of the fact that fracking has been carried out in Kansas since the 1920's, and more widely since the end of WWII – all tight gas plays have benefited from its application. Public K-through-12 education in science has been weak for many years, as evidenced by ever-declining scores on achievement tests, but has been further compromised in a number of states through the application of the Common Core State Standard Initiative and the Next Generation Science Standards (NGSS) – standards which appear less devoted to raising scientific awareness and skills than to promoting a political agenda.

The chimeric fantasy of controlling climate change is thus the avenue through which an assortment of political agenda are being promoted. Common Core and NGSS both recommend that educators identify global warming as a core concept and stress the relationship between global warming and human activity. This is a link which no scientific study has been able to demonstrate; and neither set of standards address the physics of heat, or the relationship between radiant heat and energy. They offer no appreciation of the role of the sun in affecting climate, or the relative impact of human contributions.

Why would educators and the federal bureaucracy which drives these initiatives take positions which clearly short-change the application of true quality science and in so doing diminish the scientific capabilities of the next generation? John Holdren, president Obama's science advisor answered that best:

"A massive campaign must be launched to...*de-develop* the United States...bringing our economic system (especially patterns of consumption) into line with the realities of ecology and the global resource situation...We must design a stable, low consumption economy in which there is a more equitable distribution of wealth."

This "more equitable distribution of wealth" is envisioned to be global, as indicated by a UN IPCC spokesperson in the fall of 2015:

"One must free oneself from the illusion that international climate policy is environmental policy. This has nothing to do with environmental policy anymore. ...We redistribute the world's wealth by climate policy."

This is where geoscientists, indeed all scientists, must become involved. Our science is the study of the planet Earth, including all its materials, processes, and products; and the history of the planet and its life forms. We then have an ethical responsibility to place the knowledge thus obtained into the service of man. In this we have failed. We must become involved in shoring up the scientific foundations of the next generation by seeing that their curricula are robust in content. We must speak out about how hydraulic fracturing really works. We must shine a light on the criminal alteration of historical climate data by individuals who are charged with maintaining the integrity of those data and help the public understand what is really happening. None of this will be easy and some may be distinctly unpleasant, but without a robust engagement along these lines the "war on coal" will continue to metamorphose into a "war on all carbon fuels"; our access to many of the things which the "Great Enrichment" of the past two hundred years depended on and developed will be lost; and our very culture and way of life will be threatened.

Geologists, the Public, and Public Policy:

What Are Our Ethical Responsibilities?

By

W.C. Rusty Riese, PhD





Innovative Seismic Processing Solutions



2D and 3D Land and Marine Pre-Stack Time and Depth Imaging

Pre- and Post-Stack Attributes for Amplitude, Frequency and Resolution

4805 Westway Park Blvd. Houston, TX 77041 p: 832.554.4301 www.seimaxtech.com

What is geology and what are our responsibilities?

• Our science is the study...

"...of the planet Earth – the materials of which it is made, the processes that act on those materials, the products formed, and the history of the planet and its life forms since its origin. Geology considers the physical forces that act on the Earth, the chemistry of its constituent materials, and the biology of its past inhabitants.. *The knowledge thus obtained is placed in the service of man...*" (emphasis added).

• Taking this one step further, this analysis of what we should or should not concern ourselves with, we can consider stratigraphy...

"The science of rock strata ...and their interpretation in terms of *environment* or mode of origin and geologic history."

• I suggest that the logical extension of "environment" is climate. So who better to provide the information of what our earth's climate has been through time than geologists?

SEISMIC-BASED ANALYTICS



An arbitrary line through 3 vertical wells in the West Texas Permian Basin shows the lateral variations of the Production Prediction Model and reveals refrac potential for Wells 1 and 3 where the red disks indicate the actual completion intervals and the white circles highlight the missed pay. Note the untapped target near Well 1.

For More Information: www.globalgeophysical.com/ANALYTICS or Contact ANALYTICS@globalgeophysical.com



In today's challenging market, no one can afford a bad well. Global's seismic-based analytics can help you avoid the pitfalls and pinpoint the sweet spots. By integrating seismic, geological, and engineering data, this proprietary workflow identifies the most prospective areas and zones for drilling - down to the stage level! This reduces risk, optimizes spend, and greatly increases the chance for every well and stage to be a winner.

- High-grade prospective drilling areas and zones
- Enhance well planning and geosteering
- Optimize completion placements and frac design
- Predict well performance at stage level
- Boost EUR of individual wells
- Identify candidates for refrac

Global's **SEISMIC-BASED ANALYTICS** approach is field-proven with successful projects in both conventional and unconventional reservoirs. Contact us today to find out how Global can help you make every well a winner.

What is happening in the world of K thru 12 education?

ESEA

The Elementary and Secondary Education Act (ESEA) was part of President Lyndon B. Johnson's Great Society program. Passed in 1965, it created a clear role for the federal government in K-12 policy.

The law has been reauthorized and changed more than half a dozen times since that initial legislation. And, for the most part, each new iteration has sought to expand the federal role in education.

• No Child Left Behind

The No Child Left Behind Act (NCLB), which passed Congress in 2001 and was signed into law by President George W. Bush on Jan. 8, 2002, is the name for the most recent update to the Elementary and Secondary Education Act of 1965. The NCLB law-—which grew out of concern that the American education system was no longer internationally competitive--—significantly increased the federal role in holding schools responsible for the academic progress of all students.

SPONSORS





Common Core

The Common Core State Standards Initiative is an educational initiative in the United States that details what K-12 students should know in English language arts and mathematics at the end of each grade.

Next Generation Science Standards
 The Next Generation Science Standards is a multistate effort to create new education standards that are
 "rich in content and practice, arranged in a coherent
 manner across disciplines and grades to provide all
 students an internationally
 benchmarked science education."



SPONSORS



Austin Office:

1717 W. 6th Street, Ste 230 Austin, Texas 78703 512.457.8711 Contact: Bill Walker, Jr. bwalker@stalkerenergy.com

Houston Office:

2001 Kirby Drive, Suite 950 Houston, Texas 77019 713.522.2733 Contact: Todd Sinex tsinex@stalkerenergy.com

www.stalkerenergy.com





The West Virginia BOE recently took a lot of heat for suggesting changes to the NGSS they had unwisely adopted early in 2015. NGSS assumes human-caused global warming as a persistent feature of Earth's climate, but the BOE voted in December for a more nuanced approach. Rather than assuming anthropogenic global warming, as NGSS insist upon, they want to encourage debate.

The Next Generation Science Standards (NGSS) approved by the Kentucky Board of Education (BOE), and likely to be adopted in many other states, revolutionizes the classroom landscape for millions of students. Like Common Core it recommends that educators identify global warming as a core concept and stress the relationship between global warming and human activity.



THE ORTIZ CENTER

The Ortiz Center, managed by Spectra, is a unique venue that hosts a wide variety of events. From weddings and private parties, to business meetings, trade shows and fundraisers, we can accommodate it all. Our on-site full service catering offers a variety of menu options, sure to impress you and your guests.



- Meetings
- Trainings + Seminars
- Tradeshows + Job Fairs
- Fundraisers
- Luncheons

- **GREAT FOR**
 - Galas
 - Weddings
 - Quinceaneras
 - Holiday Parties
 - Corporate Events

Webex and teleconferencing services now available.

The Ortiz Center - www.ortizcenter.com • 361-879-0125 • Corpus Christi, TX

PROFESSIONALLY MANAGED BY

In March 2016 a bill was introduced in the House to withdraw Kentucky from both NGSS and the Common Core Standards. The concern is that Common Core and NGSS effectively remove state and local control of educational standards and surrender them to a private third party, deeply vested in federal visions of what good citizens should learn and think.

Oregon has also adopted the new Next Generation Science Standards, as have most states.

Next Gen Standards say the students will know how to do this:

"Use a model to describe how variations in the flow of energy into and out of Earth's systems result in changes in climate. Clarification Statement: Examples of the causes of climate change differ by timescale, over 1-10 years: large volcanic eruption, ocean circulation; 10-100s of years: changes in human activity, ocean circulation, solar output;..."

That all climate change is due to human activity is implicitly denied, as it should be.

SPONSORS



Michael L. Jones President/Geologist

Onshore Gulf Coast Prospect Generation and Consulting

1001 McKinney Street, Suite 801 Houston, TX 77002 Ofc: 713.654.0080 Cell: 713.398.3091 Email: mjones@chargerexploration.com www.chargerexploration.com

Serving Corpus Christi for over 20 years



 We process 1st class mail with a direct discount to you

 No meter procedure change except for the amount you meter your envelopes

CALL 888-4332 for details - Ask for Anne

That old gas kick could be your next discovery!

Characterization of Unconventional Reservoirs

Traditional methods of core analysis cannot yield acceptable results when applied to unconventional reservoirs such as gas shales, tight gas sands, coals and thin bed formations.

Production controls on these reservoirs are not limited to hydrocarbons in place, permeability and porosity. Pay Identification requires an understanding of complex lithologies and exotic mineralogies.

Only Core Lab offers the comprehensive range of unique technologies required to optimize your unconventional reservoirs.

Petrophysical Geomechanical Geochemical



Geological

To learn more about our unique unconventional reservoir evaluation services contact Core Lab. (713) 328-2121 or (361) 289-5457 psinfo@corelab.com

© 2005 Core Laboratories. All rights reserved

In an outrageous fit of activism the Portland School Board has banned the teaching of climate science.

Here is the actual order from the School Board to the Portland Public Schools (PPS): "PPS will abandon the use of any adopted text material that is found to express doubt about the severity of the climate crisis or its root in human activities."

What must now be taught is that there is a severe climate crisis caused by humans. The problem is that this is not what the Oregon Science Education Standards specify that students should learn.



SPONSORS

Nueces Energy, Inc. P.O. Box 252 Corpus Christi, Texas 78403 Office: (361) 884-0435 Fax: (361)-654-1436	THUNDER EXPLORATION, INC. Celebrating 30+ years of prospect generation and exploration in the following South Texas plays and trends.
Nueces Energy, Inc. is a complete land services company in the business of providing professional landmen and project management to various energy	FrioSan MiguelEdwardsJacksonAustin ChalkPearsallYeguaEagle FordSligoWilcoxBudaCotton ValleyOlmosGeorgetownSmackover
related jobs primarily in the oil and gas industry. With over 30 years of industry experience, we specialize in determining surface and subsurface ownership and negotiating and acquiring contracts, rights of way agreements, and easements to provide our clients with the legal right to explore and develop oil and gas resources. We provide a full service land company capable of managing any project no matter how large or small.	Thunder is currently seeking non-operated working interest participation in projects and prospects. Contact Walter S. Light Jr. President/Geologist 713.823.8288 EMAIL: wthunderx@aol.com



Two professors at the University of Northern Colorado were investigated after students complained that they were forced to hear opposing viewpoints.

Never mind that neither professor wasn't even expressing his own opinion — the students just wanted the discussion shut down. And the school obliged.

Three professors co-teaching an online course called "Medical Humanities in the Digital Age" at the University of Colorado-Colorado Springs recently told their students via email that man-made climate change is not open for debate, and those who think otherwise have no place in their course:

"The point of departure for this course is based on the scientific premise that human induced climate change is valid and occurring. We will not, at any time, debate the science of climate change, nor will the 'other side' of the climate change debate be taught or discussed in this course," states the email.

> Kate Hardiman, Univ of Notre Dame, 8/31/2016 in *The College Fix*





Since 1905

Royal Exploration Company, Inc.

500 N Shoreline Blvd, Suite 807 N Corpus Christi, Texas 78401-0336

Alan Costello – Geologist acostello@royalcctx.com Matt Hammer – Exploration Manager mhammer@royalcctx.com

Telephone: 361/888-4792

Fax: 361/888-8190

Valentina Zharkova, a professor at Northumbria University at Newcastle in the United Kingdom, said the Royal Astronomical Society received requests to withdraw a press release on her team's latest research pointing to a significant drop in solar activity by midcentury.

"Some of them [scientists] were welcoming and discussing. But some of them were quite, I would say, pushy, ..."They were trying to actually silence us. Some of them contacted the Royal Astronomical Society demanding behind our back that they withdraw our press release." -- Valerie Richardson, The Washington Times, 10 August 2016


New Ft. Trinidad 3D Survey Houston and Trinity Counties, TX



in **f > D O** cgg.com/ROP



CGG offers the industry's most recent and technologically advanced multi-client data library in the world's key locations.

The best data, the right location, the right time!

Scott Tinley +1 832 351 8544 scott.tinley@ggg.com Cheryl Oxsheer +1 832 351 8463 cheryl.oxsheer@ggg.com



The Climategate emails leaked in 2009 revealed intimidation against academics and journal editors who voiced doubts about the forthcoming

Armageddon.

"Kevin and I will keep them out somehow – even if we have to redefine what the peer review literature is."

"...If you think that Saiers is in the greenhouse skeptics camp, then, if we can find some documentary evidence of this, we could go through official AGU channels and get him ousted."

"...don't pass it along." "...hide the decline." "...can't account for the lack of warming." "Leave it to you to delete as appropriate." "I will be hiding behind them." "...delete any emails you may have had."

Dr. Judith Curry, National Press Club, September 2014:

"If I were a non-tenured scientist, I would fear for my job! But I am a senior scientist with retirement in sight, so I can afford to do what I want, say what I think." Geologists at the University of Cincinnati just wrapped up a three-year investigation of hydraulic fracturing and its impact on local water supplies.

The result? There's no evidence that fracking contaminates drinking water. Researchers hoped to keep these findings secret.

Why would a public research university boasting a top-100 geology program deliberately hide its work? Because, as lead researcher Amy Townsend-Small explained, "our funders, the groups that had given us funding in the past, were a little disappointed in our results. They feel that fracking is scary and so they were hoping our data could point to a reason to ban it."

A review of the available research bears out these claims. Consider the Ground Water Protection Council's recent study on gas exploration in Ohio, from 1983 until 2007, and in Texas, from 1993 until 2008.

According to that report, neither officials in Texas nor those in Ohio "identified a single groundwater contamination incident...at any of these horizontal shale gas wells" during those periods.

Since 1947 over one million wells have been hydraulically fractured.

Only one case of demonstrated induced seismicity from hydraulic fracturing for shale gas has been documented worldwide (Blackpool, England – 2011).

New NASA Study Undercuts EPA, Finds Fracking Not to Blame for Increased Methane Emissions

Posted by: Katie Brown, PhD Washington DC March 11, 2016

Just one day after the U.S. Environmental Protection Agency announced it will regulate methane emissions from existing sources of oil and natural gas in order to "combat climate change," scientists at the National Aeronautics and Space Administration (NASA) have released a new study finding that oil and natural gas producers are not to blame for a global increase in methane emissions. In fact, according to the researchers, the increased emissions are instead coming from wetlands and agriculture.

Over-reliance on models, misapplication of statistical methods, and lack of repeatability are the hallmarks of the new pseudoscience that is replacing the traditional practice of science, real science.

Science, September 1, 2015

Modeling is not true science; modeling is just playing with hypotheses, so there is actually very little climate science being done. Moreover, *given that the models all assume AGW*, it is no wonder that many climate scientists endorse AGW. It is built into their work.



AZQUOTES



I could never have known so well how paltry men are, and how little they care for really high aims, if I had not tested them by my scientific researches. Thus I saw that most men only care for science so far as they get a living by it, and that they worship even error when it affords them a subsistence.

What's happening in government?

California SB 1161: Makes Questioning "Climate Change" a Sue-able (Criminal?) Offense.

Section 2(b) of the bill declares it the California legislature's policy to promote "redress for unfair competition practices committed by entities that have deceived, confused, or misled the public on the risks of climate change or financially supported activities that have deceived, confused, or misled the public on those risks" Promoted as making it easier to sue fossil fuel companies over their involvements in public debate, the bill would lift the four-year statute of limitations of the state's already extremely liberal Unfair Competition Law, otherwise known as s. 17200— and retrospectively, so as to revive decades' worth of time-lapsed claims "with respect to scientific evidence regarding the existence, extent, or current or future impacts of anthropogenic-induced climate change."

The top law enforcement officers in 16 states have formed a coalition to investigate and prosecute companies that don't agree with them on climate change. In other words, those not practicing orthodoxy will be punished.

"We cannot continue to allow the fossil fuel industry or any industry to treat our atmosphere like an open sewer or mislead the public about the impact they have on the health of our people and the health of our planet," Gore said in a news conference held in Manhattan.

Standing next to Gore was New York Attorney General Eric Schneiderman, who promised that the group of state attorneys general will hunt down the global warming heretics and punish them.

Investor's Business Daily Editorials

Attorneys General Create Axis For Global Warming Shakedown

A coalition of state attorneys general wants to leave businesses that don't agree with its global warming views as cracked and dry as a drought-weary lake bed. (AP) 3/31/2016

A12 | Saturday/Sunday, April 30 - May 1, 2016

OPINION

REVIEW & OUTLOOK

The Climate Police Escalate

<section-header><section-header><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text>

In news that should shock and anger Americans, U.S. Attorney General Loretta Lynch told the Senate Judiciary Committee on Wednesday that not only has she discussed internally the possibility of pursuing civil actions against so-called "climate change deniers," but she has "referred it to the FBI to consider whether or not it meets the criteria for which we could take action." *--Hans von Spakovsky, The Daily Signal, 10 March 2016*





Per par charter o chi anno anti accorre contest.

Interior Secretary Sally Jewel, 2014:

"I hope there are no climate change deniers in the Department of Interior."

None of this should be a surprise:

In 2007 and 2008, candidate Obama declared his intention to destroy fossil fuel energy in America and around the world, calling for "emissions targets" that would make it illegal to use more than 20 percent of today's levels. (Epstein, 2014, *The Moral Case for Fossil Fuels*).

"At the dawn of the twenty-first century, the country that faced down the tyranny of fascism and communism is now called to challenge the tyranny of oil... For the sake of our security, our economy, our jobs and our planet, the age of oil must end in our time."

Barack Obama, "Remarks to the Detroit Economic Club,"

May 7, 2007, speech, Detroit, MI, The American Presidency Project In November (2015), massive manipulation and falsification of the surface temperature record by NASA and NOAA were exposed in a detailed analysis by German scientist Friedrich-Karl Ewert titled "NASA GISS Temperature Records Altered - Why?"

In January (2016) some 300 scientists signed a letter to Congressman Smith supporting his investigation into NOAA.

Senator Inhofe has also called for investigation of the scientific improprieties revealed in the CRU emails:

"The notion that these scientists tried to declare the science settled for personal reasons is disgraceful. ...They were purposefully misrepresenting the facts. They tried to make America believe, and it worked, for a time. ...We've had warming, then cooling, then warming, then cooling again. I'm delighted that people are discovering that the science has been cooked for a long period of time.

"There are tremendous economic ramifications to what these guys are trying to do...The IPCC for years has been costing the government so much money, and now, wasted time in trying to pass faulty legislation based on bad data."

> Robert Costa, "Inhofe: CRU Scandal Bigger than ACORN Flap," National Review online, November 24, 2009





Figure 4: Temperature station data for Brenham Texas. The upper graph was downloaded from the NASA GISS data base in late 2012. The lower graph was downloaded from the same site in mid 2008. Two degrees of cooling have been added to the 2012 curve for several years between 1900 and 1940 and again for several years between 1955 and 1985. As a result, the Brenham Station now shows an overall warming trend, whereas in 2008 the data showed a generally cooling trend.











But the bottom line is the political science, not the climate science, as Obama White House Science Advisor John Holdren has previously revealed. He has stated, "A massive campaign must be launched to...*de-develop* the United States...bringing our economic system (especially patterns of consumption) into line with the realities of ecology and the global resource situation....We must design a stable, low consumption economy in which there is a much more equitable distribution of wealth."

Peter Ferrara in Forbes, May 18, 2014



At a news conference last week in Brussels, Christiana Figueres, executive secretary of U.N.'s Framework Convention on Climate Change, admitted that the goal of environmental activists is not to save the world from ecological calamity but to destroy capitalism.

"This is the first time in the history of mankind that we are setting ourselves the task of intentionally, within a defined period of time, to change the economic development model that has been reigning for at least 150 years, since the Industrial Revolution. ...This is probably the most difficult task we have ever given ourselves, which is to intentionally transform the economic development model for the first time in human history."

--Investor's Business Daily, 10 February 2015

Maurice Strong, Chairman, First international meeting on global warming, Rio de Janeiro, 1992:

"Isn't the only hope for the planet that the industrialized civilizations collapse? Isn't it our responsibility to bring that about?"

"Our concept of ballot-box democracy may need to be modified to produce a strong central government capable of making difficult decisions."

Strobe Talbert, Deputy Secretary of State under Clinton:

"Nationhood as we know it will be obsolete – all states will recognize a single global authority... National Sovereignty wasn't such a good idea."



Ottmar Odenhofer, UN-IPCC lead author, 4th IPCC Report, in an interview Nov. 18, 2010:

"We redistribute de facto the world's wealth by climate policy. One has to free oneself from the illusion that international climate policy is environmental policy." Richard Benedict, then Deputy Assistant of State, head of the policy divisions of the US State Department:

> "A global warming treaty must be implemented even if there is no scientific evidence to back the (enhanced) greenhouse effect."

> > S. Fred Singer and Dennis T. Avery, Unstoppable Global Warming, 2007, p.210.

Dana Rohrabacher, U.S. Representative, California:

"Global warming is a fraud being used as a tool to create a Global Government."



Jacques Cousteau explicitly proclaims the need to depopulate the earth :

"The damage people cause to the planet is a function of demographics - it is equal to the degree of development. [The single country] America burdens the earth much more than twenty Bangladeshes.... This is a terrible thing to say. In order to stabilize world population, we must eliminate 350,000 people per day. It is a horrible thing to say, but it's just as bad not to say it."

November 1991 UNESCO Courier

• "Human happiness, and certainly human fecundity, are not as important as a wild and healthy planet. ...(Some claim) that people are part of nature but it isn't true. ...we became a cancer. We have become a plague upon ourselves and upon the Earth. It is cosmically unlikely that the developed world will choose to end its orgy of fossilenergy consumption, and the Third World its suicidal consumption of landscape. Until such time as *Homo sapiens* should decide to rejoin nature, some of us can only hope for the right virus to come along."

David M. Graber, research biologist, National Park Service in the Los Angeles Times, Oct. 22, 1989 But there are other ways to achieve those ends – a "pristine" planet and smaller population.

> Simply eliminate the world's access to inexpensive energy – declare war on fossil fuels and eliminate them.

Problem solved, capitalism destroyed in the developed world, and "wealth" transferred to the Third World where fossil fuel use is not curtailed.

So, enter the EPA and its activities:

- Control CO2 "pollution" via the Clean Air Act ->
- Control commercial aircraft emissions
- Cause 244 coal plants to close
- Push all major coal producers to backrupcy
- Declare that all residential energy will be renewable by 2030 (requiring 500 million solar panels at a cost of \$1 trillion)

Dr. Patrick Moore in *"Confessions of a Greenpeace Dropout"*:

"There is no definitive scientific proof, through realworld observations, that CO2 is responsible for warming of the globe."

"It doesn't matter how beautiful your theory is, it doesn't matter how smart you are. If it doesn't agree with experiment, it's wrong." Richard Feynman







"The future is hard to foresee. Serious scientists should refrain from slipping into the role of Nostradamus. Computer simulations cannot be better than the premises that guided the input of data: they show what is expected to happen, not the actual future. The history of the sciences is also a history of false theories and wrong predictions."

Behringer, 2010, A Cultural History of Climate

The New York Times

THURSDAY, JANUARY 5, 1978

By WALTER SULLIVAN

An international team of specialists has concluded from eight indexes of climate that there is no end in sight to the cooling trend of the last 30 years, at least in the Northern Hemisphere.

The report, prepared by German, Japanese and American specialists, appears in the Dec. 15 issue of Nature, the British journal. The findings indicate that from 1950 to 1975 the cooling, per decade, of most climate indexes in the Northern Hemisphere was from 0.1 to 0.2 degrees

Celsius, roughly 0.2 to 0.4 degrees Fahrenheit.

Data from the Southern Hemisphere, particularly south of latitude 30 south, are so meager that reliable conclusions are not possible, the report says. The

The Cooling World

There are ominous signs that the earth's weather patterns have begun to change dramatically and that these changes may portend a drastic decline in food production—with serious political implications for just about every nation on earth. The drop in food output could begin quite soon, perhaps only ten years from now. The regions destined to feel its impact are the great wheat-producing lands of Canada and the U.S.S.R. in the north, along with a number of marginally self-sufficient tropical areas—parts of India, Pakistan, Bangladesh, Indochina and Indonesia—where the growing season is dependent upon the rains brought by the monsoon.

The evidence in support of these predictions has now begun to accumulate so massively that meteorologists are hard-



pressed to keep up with it. In England, farmers have seen their growing season decline by about two weeks since 1950, with a resultant over-all loss in grain production estimated at up to 100,000 tons annually. During the same time, the average temperature around the equator has risen by a fraction of a degree—a fraction that in some areas can mean drought and desolation. Last April, in the most devastating outbreak of tornadoes ever recorded, 148 twisters killed more than 300 people and caused half a billion dollars' worth of damage in thirteen U.S. states.

Trend: To scientists, these seemingly disparate incidents represent the advance signs of fundamental changes in the world's weather. The central fact is that after three quarters of a century of extraordinarily mild conditions, the earth's climate seems to be cooling down. Meteorologists disagree about the cause and extent of the cooling trend, as well as over its specific impact on local weather conditions. But they are almost unanimous in the view that the trend will reduce agricultural productivity for the rest of the century. If the climatic change is as profound as some of the pessimists fear, the resulting famines could be catastrophic. "A major climatic change would force economic and social adjustments on a worldwide scale," warns a recent report by the National Academy of Sciences, "because the global patterns of food production and population that have evolved are implicitly dependent on the climate of the present century."

A survey completed last year by Dr. Murnay Mitchell of the National Oceanic and Atmospheric Administration reveals a drop of half a degree in average ground temperatures in the Northern Hemisphere between 1945 and 1968. According to George Kukla of Columbia University, satellite photos indicated a sudden, large increase in Northern Hemisphere snow cover in the winter of 1971-72. And



"In climate research and modeling, we should recognize that we are dealing with a coupled non-linear chaotic system, and therefore that long-term prediction of future climate states is not possible."

> IPCC Climate Change 2000, Chapter 8, "Model Evaluation", p. 774

"Anyone who claims to know what climate changes will occur in a year, a decade, or even longer ahead is either a fraud or a fool."

Larry Bell, *Climate of Corruption*, 2011, p.215.



"Corrupt science that supports these travesties has many complicit agents. It is perpetrated by sponsors who fail to provide competent oversight; by ideologically, politically, and financially driven authorities who twist and exploit conclusions; and by lockstep, headline-hungry media organizations that emphasize sensationalism over substance. And we can't forget those among us who, through complacency and denial in the face of obvious deception, willingly forfeit demands for accountability. When we abrogate that responsibility, perhaps we become culpable too."

Larry Bell, Climate of Corruption, 2011, p.236.



Climate change is the biggest scam in the history of the world – a \$1.5 trillion-ayear conspiracy against the taxpayer, every cent, penny and centime of which ends in the pockets of the wrong kind of people, none of which goes towards a cause remotely worth funding, all of it a complete and utter waste.

Selected references

- "The Great Global Warming Blunder" by Roy W. Spencer, 2010
- "Climate of Corruption" by Larry Bell, 2011
- "A Disgrace to the Profession, Vol. 1" by Mark Steyn, 2015
- "The Moral Case for Fossil Fuels" by Alex Epstein, 2014

"Unstoppable Global Warming – Every 1,500 Years" by S. Fred Singer and Dennis T. Avery, 2007
"Fire, Ice, and Paradise" by H. Leighton Steward, 2009
"Climate Change Facts" Alan Moran ed., 2015

Video references

"The Great Global Warming Swindle"

https://video.search.yahoo.com/search/ video;_ylt=AwrBT_t4JddXHQoA9qFXNyoA;_ylu=X3oDMTE yMm43aWFsBGNvbG8DYmYxBHBvcwMxBHZoaWQDQjE5 MTBfMQRzZWMDc2M-?p=The+Great+Global +Warming&fr=mcafee

Professor Ian Plimmer

https://www.youtube.com/watch?v=iEPW_P7GVB8

Patrick Moore

<u>https://www.prageru.com/courses/environmental-science/</u> <u>what-they-havent-told-you-about-climate-</u> change#.Vc4sj_lViko

• Stefan Molyneux

https://www.youtube.com/watch?v=yTTaXqVEGkU

In 2013 *The Los Angeles Times* said it would "no longer publish letters from climate change deniers", in which category it included sceptics.

In 2014 the BBC upheld a complaint against itself for allowing Lord Lawson to discuss climate change at all, commenting bizarrely that his views "are not supported by the evidence from computer modelling".

The editor of this newspaper received a private letter last week from Lord Krebs and 12 other members of the House of Lords expressing unhappiness with two articles by its environment correspondent. Conceding that *The Times's* reporting of the Paris climate conference had been balanced and comprehensive, it denounced the two articles about studies by mainstream academics in the scientific literature, which provided less than alarming assessments of climate change.

Stop censoring climate debate

President Obama told Americans in his recent (and last) State of the Union address: "Democracy grinds to a halt without a willingness to compromise, or when even basic facts are contested, or when we listen only to those who agree with us. Our public life withers when only the most extreme voices get all the attention." Yet the president will not compromise with or even listen to the many highly qualified scientists who contest his position on climate change. Instead he heeds the most extreme

Instead he heeds the most extreme voices in the debate, people such as ex-NASA scientist James Hansen and others who exaggerate the climate scare to ridiculous levels that even left-wing scientists disdain.

In his last year, Mr. Obama must do the following:

1. Stop referring to those who question the causes of climate change as people 'on the fringe' of science who should be shunned. As shown by the reports of the Nongovernmental International Panel on Climate Change (NIPCC), there are literally thousands of peer-reviewed papers in the world's leading science journals that shed doubt on or outright refute the Obama administration's position on climate change.

2. Stop his dangerous 'war on coal' to



supposedly stop climate change. Coal is America's cheapest and most abundant power source and its use must be expanded, not reduced, if soaring electricity prices and massive unemployment is to be avoided.

3. Start telling the truth about the Paris Agreement on climate change and other nonsensical attempts to stop global warming. Developing countries emit the most carbon dioxide, yet the United Nations has given them an opt-out clause. So even if the United Nations' science were correct, America's sacrifice would be for nothing.

If Obama is serious about promoting "a more elevated debate in Washington," as he said he was in his last State of the Union address, he must start to practice what he preaches.

TOM HARRIS Esecutive director International Climate Science Coalition (ICSC) Ottawa, Ontario Corpus Christi Geological Society Papers available for purchase at the Texas Bureau of Economic Geology

Note: Publication codes are hyperlinked to their online listing in <u>The Bureau Store</u> (http://begstore.beg.utexas.edu/store/).

Cretaceous-Wilcox-Frio Symposia, D. B. Clutterbuck, Editor, 41 p., 1962. CCGS 002S \$15.00

Type Logs of South Texas Fields, Vol. I, Frio Trend. Compiled by Don Kling. Includes 134 fields. 158 p., 1972. Ring binder. CCGS 015TL \$25.00

Type Logs of South Texas Fields, Vol. II, Wilcox (Eocene) Trend. Compiled by M. A. Wolbrink. 98 p., 1979. Ring binder. CCGS 016TL \$25.00

Field Trip Guidebooks

South Texas Uranium. J. L. Cowdrey, Editor. 62 p., 1968. CCGS 102G \$12.00

Hidalgo Canyon and La Popa Valley, Nuevo Leon, Mexico. CCGS 1970 Spring Field Conference. 78 p., 1970. CCGS 103G \$8.00

Padre Island National Seashore Field Guide. R. N. Tench and W. D. Hodgson, Editors. 61 p., 1972. CCGS 104G \$5.00

Triple Energy Field Trip, Uranium, Coal, Gas—Duval, Webb & Zapata Counties, Texas. George Faga, Editor. 24 p., 1975. CCGS 105G \$10.00

Minas de Golondrinas and Minas Rancherias, Mexico. Robert Manson and Barbara Beynon, Editors. 48 p. plus illus., 1978. CCGS 106G \$15.00 Portrero Garcia and Huasteca Canyon, Northeastern Mexico. Barbara Beynon and J. L. Russell, Editors. 46 p., 1979. CCGS 107G \$15.00

Modern Depositional Environments of Sands in South Texas. C. E. Stelting and J. L. Russell, Editors. 64 p., 1981. CCGS 108G \$15.00

Geology of Peregrina & Novillo Canyons, Ciudad Victoria, Mexico, J. L. Russell, Ed., 23 p. plus geologic map and cross section, 1981. CCGS 109G \$10.00

Geology of the Llano Uplift, Central Texas, and Geological Features in the Uvalde Area. Corpus Christi Geological Society Annual Spring Field Conference, May 7-9, 1982. Variously paginated. 115 p., 53 p.

<u>CCGS 110G</u> \$15.00

Structure and Mesozoic Stratigraphy of Northeast Mexico, prepared by numerous authors, variously paginated. 76 p., 38 p., 1984. <u>CCGS 111G</u> \$15.00

Geology of the Big Bend National Park, Texas, by C. A. Berkebile. 26 p., 1984. CCGS 112G \$12.00

GEO LINK POST

<u>http://www.lib.utexas.edu/books/landsapes/index.php</u> Free service. Rare, fragile, hardto-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 <u>http://tapestry.usgs.gov</u> 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 <u>http://www.tnris.state.tx.us/digital.htm</u> 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 <u>http://store.usgs.gov/b2c_usgs/b2c/start/</u> (xcm=r3standardpitrex_prd)/.do go to this webpage and look on the extreme right side to the box titled TOPO MAPS <u>DOWNLOAD</u> TOPO MAPS FREE.

<u>http://www.geographynetwork.com</u>/ 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.

<u>http://terrasrver.com</u> 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

ARANSAS COUNTY

Aransas Pass/McCampbell Deep Bartell Pass Blackjack **Burgentine Lake** Copano Bay, South Estes Cove Fulton Beach Goose Island Half Moon Reef Nine Mile Point Rockport, West St. Charles Tally Island Tract 831-G.O.M. (offshore) Virginia

BEE COUNTY

Caesar Mosca Nomanna Orangedale(2) Ray-Wilcox San Domingo

Tulsita Wilcox Strauch Wilcox

BROOKS COUNTY

Ann Mag Boedecker Cage Ranch Encintas FRF Gyp Hill

Gyp Hill West

Loma Blanca Mariposa Mills Bennett Pita Tio Ayola Tres Encinos

CALHOUN COUNTY

Applina Coloma Creek, North Hevsei Lavaca Bay Long Mott Magnolia Beach Mosquito Point Olivia Panther Reef Powderhorn Seadrift, N.W. Steamboat Pass Webb Point S.E. Zoller **CAMERON COUNTY** Holly Beach

Luttes San Martin (2) Three Islands, East

NEW (2009-2010) TYPE LOGS IN RED; *****2011; Vista Del Mar

COLORADO COUNTY E. Ramsev **Graceland N. Fault Blk** Graceland S. Fault Blk DEWITT COUNTY

Anna Barre Cook

*****Nordheim Smith Creek

Warmslev Yorktown, South **DUVAL COUNTY**

DCR-49 Four Seasons Good Friday Hagist Ranch Herbst Loma Novia Petrox Seven Sisters Seventy Six, South Starr Bright, West GOLIAD COUNTY Berclair

North Blanconia Bombs Bovce Cabeza Creek, South Goliad, West

St Armo

Terrell Point **HIDALGO COUNTY**

Alamo/Donna Donna Edinburg, West Flores-Jeffress Foy Hidalgo

LA Blanca McAllen& Pharr McAllen Banch Mercedes Monte Christo, North Penitas San Fordyce San Carlos San Salvador S. Santallana Shary Tabasco Weslaco, North Weslaco, South **JACKSON COUNTY**

Carancahua Creek Francitas

Ganado & Ganado Deep LaWard, North Little Kentucky

lost now found

Maurbro StewartSwan Lake Swan Lake. East Texana, North West Ranch

JIM HOGG COUNTY Chaparosa

- Thompsonville, N.E.
- JIM WELLS COUNTY Freebom Hoelsher Palito Blanco
- Wade City

KARNES COUNTY

Burnell Coy City Person Runge **KENEDY COUNTY** Candelaria Julian

Rita

Julian, North Laguna Madre Stillman **KLEBERG COUNTY** Alazan Alazan, North

Big Caesar Borregos Chevron (offshore) Laguna Larga Seeligson Sprint (offshore) LA SALLE COUNTY

Pearsall LAVACA COUNTY

Halletsville Hope Southwest Speaks Southwest Speaks Deep LIVE OAK COUNTY

Atkinson Braslau Chapa Clayton Dunn Harris Houdman Kittie West-Salt Creek Lucille Sierra Vista Tom Lyne White Creek White Creek, East MATAGORDA COUNTY Collegeport

Devil's Waterhole Hostetter Hostetter, North NUECES COUNTY Agua Dulce (3) Arnold-David Arnold-David. North Baldwin Deep Calallen Chapman Ranch Corpus Christi, N.W. Corpus Christi West C.C. **Encinal Channel** Flour Bluff/Flour Bluff. East GOM St 9045(offshore) Indian Point Mustang Island Mustang Island, West Mustang Island St. 889S(offshore) Nueces Bay/Nueces Bay

MCMULLEN COUNTY

Arnold-Weldon

Brazil

West Perro Rojo

Pita Island Ramada Redfish Bay Riverside Riverside, South Saxet Shield Stedman Island Turkey Creek **REFUGIO COUNTY** Bonnieview/Packery Flats

Greta La Rosa Lake Pasture Refugio, New Tom O'Connor

SAN PATRICIO COUNTY

Angelita East Commonwealth Encino Enos Cooper Geronimo Harvey Hiberia Hodges Mathis, East McCampbell Deep/Aransas Pass Midway Midway, North Odem

Taft, East White Point, East **STARR COUNTY** El Tanque Garcia Hinde La Reforma, S.W. Lyda Ricaby Rincon Rincon, North Ross San Roman Sun Yturria VICTORIA COUNTY Helen Gohike, S.W. Keeran, North Marcado Creek McFaddin Meyersville Placedo WEBB COUNTY Aquilares/Glen Martin **Big Cowboy** Bruni, S.E. Cabezon Carr Lobo

Plymouth

Portilla (2)

Taft

Davis Hirsch Juanita Las Tiendas Nicholson O'Hem Olmitos Tom Walsh WHARTON COUNTY Black Owl WILLACY COUNTY **Chile Vieja**

La Sal Vieja Paso Real Tenerias Willamar ZAPATA COUNTY

Benavides Davis, South Jennings/Jennings, West Lopeno M&F Pok-A-Dot ZAVALA COUNTY El Bano

Call Coastal Bend Geological Library, Maxine: 361-883-2736 log -- \$10 each, 5-10 logs \$9 each and 10 + logs \$8.00 each -- plus postage

OIL MEN TALES FROM THE SOUTH TEXAS OIL PATCH DVD MEMBER PRICE \$25 NON-MEMBER \$30



To Order DVD Sebastian Wiedmann <u>swiedmann.geo@gmail.com</u> If mailed add \$5.00



Wooden Rigs—Iron Men The Story of Oil & Gas in South Texas By Bill & Marjorie K. Walraven Published by the Corpus Christi Geological Society Corpus Christi Geological Society C/O Javelina Press P. O. Box 60181 Corpus Christi, TX 78466







Crossroads Exploration Gloria D. Sprague Geologist 189 North First Street, Suite 111 Timpson, Texas 75975 M. Office: 936-254-3600 Mobile: 936-488-9428 gsprague4532@att.net Environmental Exploration S. Production	Charles A. Sternbach, Ph.D. President Star Creace Lengry Company Dia da Gas Exploration 800 Wilcrest Drive, Suite 236 Houston, Texas 77042 office: 281.677.733 carbodude@gmail.com www.starcreekenergy.com Wurk.starcreekenergy.com	Pensis A. Taylor Mittage President and Chief Geologist Mittage Series Consistent and Chief Geologist Mittage Mittage Mittage Mitt
JEANIE TIMMERMANN GEOSCIENTIST TX LICENSE #2289 7214 Everhart #9 (361) 991-7451 Corpus Christi, TX 78413 jtimmermann74@msn.com	Davis Direct: 713.439.6773 Petroleum Direct: 713.626.7766 Corp. Cell: 713.826.775 Www.davlepetroleumcorp.com jtravillo@davcos.com	WILLIAM A. WALKER, JR. Certified Petroleum Geologist bwalker@stalkerenergy.comHouston1717 Wast 6° STREET, STE 230 • AUSTIN, TX 77019cell: 512.217.5192 fax: 713.522.2879
SEBASTIAN P. WIEDMANN GEOSCIENTIST WILSON PLAZA WEST 606 N. CARANCAHUA, SUITE 500 CORPUS CHRISTI, TEXAS 78401 Swiedmann.geo@gmail.com	Dave Willis Main +1 713 789 7250 Onshore Sales Direct +1 281 781 1035 Mobile +1 281 781 1035 Mobile Fax +1 713 789 7201 dave.willis@ionge.com 2105 CityWest Blvd. Suite 900 Houston, TX 77042-2839 USA Houston, TX 77042-2839 USA	ROLF WOODS Exploration Geologist ESENJAY PETROLEUM CORPORATION 500 N. Water St., Ste. 11005 — CORPUS CHRISTI, TX 78401-0236 Work: (361) 883-7464 · Pax: (361) 883-3244 · Cell: (361) 947-9200 e-mail: wrwoods@gmail.com