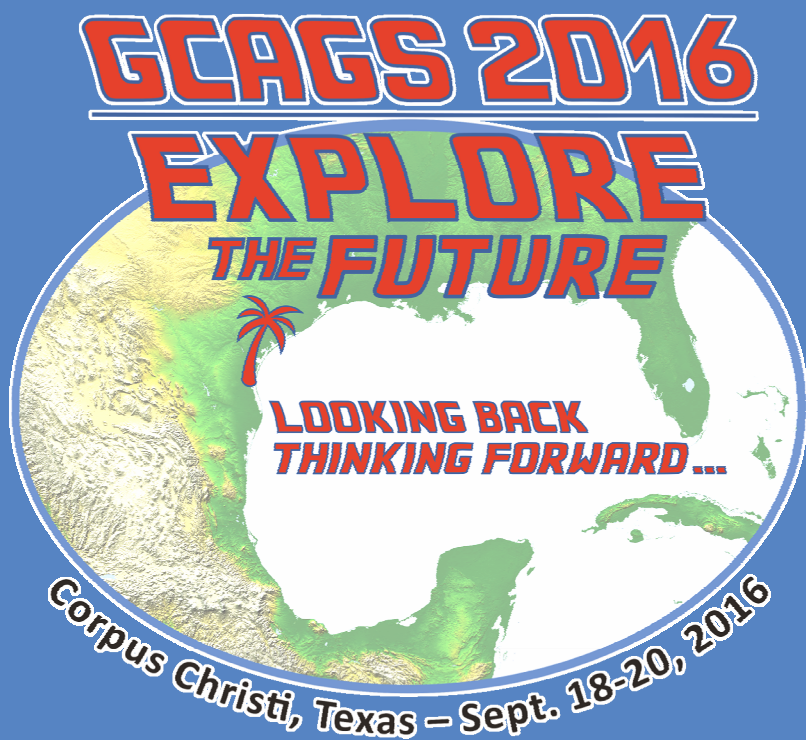


Gulf Coast Association of Geological Societies and Gulf Coast Section of SEPM



66TH ANNUAL CONVENTION
CORPUS CHRISTI, TEXAS
SEPTEMBER 18 – 20, 2016

CONVENTION PROGRAM

Hosted by the
Corpus Christi Geological Society

Special Note:

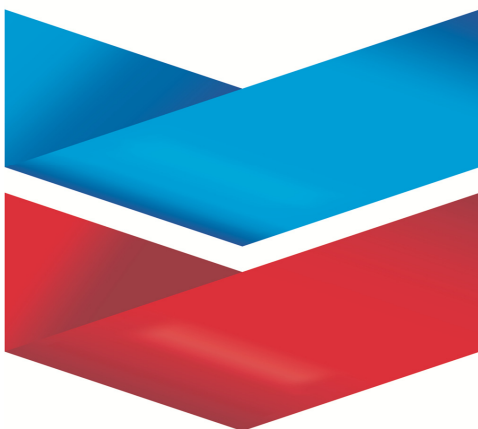
This Digital Program Guide incorporates a number of external hyperlinks to abstracts and presentations hosted on the *GCAGS Explore & Discover* website.

To fully utilize this aspect:

- (1) Your device must be connected to the internet,
and
- (2) Your PDF viewing software must allow linkage to external websites.
 - (a) For users of Adobe Reader or Acrobat, you can enable/disable external internet links, by navigating to **Edit > Preferences** (Windows) or **Acrobat DC/Acrobat Reader DC > Preferences** (Mac OS). From the Categories on the left, select **Trust Manager**, and then click **Change Settings** to specify the default behavior for accessing the Internet from PDFs.
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Special Thanks to our Emerald Sponsor

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Welcome to the 2016 GCAGS/GCSSEPM Convention!!

On behalf of the Corpus Christi Geological Society and Gulf Coast Section of Society of Sedimentary Geologists - Welcome to the 66th Annual Convention of the Gulf Coast Association of Geological Societies Convention!

We are so glad you are here. You are in store for an excellent technical program with some great short courses, field trips and social events thrown in, as well.

This guide details our program and events, so I won't summarize it here. If you see something else you'd like to do, stop by the registration desk and simply pick up a ticket.

My heartfelt and sincere thanks go to the folks who have made this superb convention possible:

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

Of course you can't have a technical convention without content! Thank you Session Chairs and Presenters! You are the "why" we are meeting.

I could write pages about everyone listed here. All of you have done a fine job. It has been such a pleasure working with you.

The GCAGS, and particularly Corpus Christi, is made up of great people.

Dawn S. Bissell

Dawn Stewart Bissell
General Chair, GCAGS Convention

THANK YOU to our sponsors for supporting the 2016 GCAGS/GCSSEPM Annual Convention and Exhibition!
Your support in our current environment is critical and much appreciated.

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Follow us on Twitter at <https://twitter.com/GCAGSorg> or via
username @GCAGSorg (Use #GCAGS, #GCAGS2016, or
#GCAGSCC in all your conference posts!)



You can also find us on LinkedIn in the group named
"Gulf Coast Association of Geological Societies" or visit us at
<https://www.linkedin.com/groups/6708404>.



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All events will be held at the American Bank Center (ABC) Convention Center, Second Level, 1901 Shoreline Blvd., Corpus Christi, Texas, unless otherwise noted.

Saturday, September 17, 2016

- 8:30 am–2:00 pm Field Trip: Ice Age Mammal Fossil Hunt, Departure and Return at Omni Hotel, p. 34
- 8:30 am–4:30 pm Earth Science Teacher Training: Make Your Class Exciting through Earth Science, EOG facility, p. 35
- 12:30 pm–4:30 pm Short Course (1/2-day): Depositional Environments of Ancient Clastic Systems from Well Logs, EOG Training Facility, p. 34
- 3:00 pm–6:00 pm Registration Open, Inside Watergarden A, p. 12

Sunday, September 18, 2016

- 7:00 am–8:00 pm Registration Open, Inside Watergarden A, p. 12
- 8:00 am–1:00 pm Corpus Christi Geological Society Golf Outing, North Shore Country Club, p. 9
- 8:00 am–3:00 pm GCAGS Board Meeting (by invitation only), Omni Hotel, Bayview Room, p. 9
- 8:00 am–4:00 pm Short Course: Basic Seismic Attributes, EOG Training Facility, p. 34
- 8:00 am–4:30 pm Field Trip: Geomorphology and Geologic History of the Nueces River Valley, Corpus Christi Bay, Laguna Madre, and Padre Island, Departure and Return at Omni Hotel, p. 34
- 8:00 am–4:30 pm Exhibitor Move-In, Watergarden A/B
- 1:00 pm–5:00 pm Speaker/Judges Room Open, Room 225A/B, p. 13
- 2:00 pm–4:00 pm Guest Hospitality, Omni Hotel, Room 1754, p. 36
- 3:00 pm–8:30 pm Shuttle service available between the American Bank Center and the Omni Hotel, p. 10
- 5:00 pm–6:00 pm Opening Session/Awards Ceremony, Henry Garrett B, p. 7
- 6:00 pm–8:00 pm Exhibits/Posters Open at Watergarden A/B, p. 12
- 6:00 pm–8:00 pm Icebreaker in Exhibit Hall, Margaritas and Mariachis, Watergarden A/B, p. 7

Monday, September 19, 2016

- 6:30 am–6:30 pm Shuttle service available between the American Bank Center and the Omni Hotel, p. 10
- 7:00 am–8:00 am Speakers/Poster Presenters/Judges Breakfast, Henry Garrett A, p. 12
- 7:00 am–8:30 am AAPG House of Delegates Breakfast, Omni Hotel, OMNI Nueces A, p. 9
- 7:00 am–6:00 pm Registration Open, Inside Watergarden A, p. 12
- 7:00 am–6:00 pm Speakers/Judges Room Open, Room 225A/B, p. 13
- 8:00 am–10:00 am Guest Hospitality, Omni Hotel, Room 1754, p. 36
- 8:25 am–11:05 am Oral Session: Gulf of Mexico Systems, Henry Garrett D, pp. 16 & 18
- 8:25 am–11:05 am Oral Session: Salt Tectonics, Room 225D/E, pp. 16 & 19
- 8:25 am–11:05 am Oral Session: Reservoir Quality and Prediction, Room 226, pp. 16 & 19

Monday, September 19, Continued

- 8:25 am–11:30 am Oral Session: Gulf of Mexico Deepwater Plays, Henry Garrett B, pp. 16 & 17
- 8:25 am–11:30 am Oral Session: Eagle Ford—Understanding the Unconventionals, Henry Garrett C, pp. 16 & 17
- 8:25 am–11:30 am Oral Session: Advances in Geophysics, Room 225C, pp. 16 & 18
- 8:30 am–11:30 pm Poster Session 1, Exhibit Hall, Watergarden A/B, pp. 16 & 28
- 8:30 am–6:00 pm Exhibits/Posters Open at Watergarden A/B, p. 12
- 9:30 am–3:30 pm Guest Activity: Fulton Mansion Tour, Lunch, and Shopping in Rockport-Fulton, Texas, p. 36
- 11:45 am–1:15 pm All-Convention Luncheon: Mr. Charles Sheppard, VP Exploration, EOG Resources, Henry Garrett A, p. 7
- 1:25 pm–2:45 pm Oral Session: Gulf of Mexico Deepwater Plays, Henry Garrett B, pp. 16 & 20
- 1:25 pm–4:05 pm Oral Session: Gulf of Mexico Systems, Henry Garrett D, pp. 16 & 21
- 1:25 pm–4:30 pm Oral Session: Gulf of Mexico Field/Case Studies, Room 225D/E, p. 16 & 22
- 1:25 pm–4:30 pm Oral Session: Advances in Geophysics, Room 225C, pp. 16 & 21
- 1:25 pm–4:30 pm Oral Session: Eagle Ford—Understanding the Unconventionals, Henry Garrett C, pp. 16 & 20
- 1:25 pm–4:30 pm Oral Session: New/Improved Methodologies with Applications to Petroleum E&P, Room 226, pp. 16 & 22
- 1:30 pm–6:00 pm Poster Session 2, Exhibit Hall, Watergarden A/B, pp. 16 & 30
- 4:00 pm–6:00 pm Guest Hospitality, Omni Hotel, Room 1754, p. 36
- 5:00 pm–6:00 pm Happy Hour in the Exhibit Hall, Watergarden A/B, p. 8
- 6:30 pm–9:30 pm Brewsters and Bluegrass, p. 8. Shuttle service will be available between the Omni Hotel and Brewster Street Icehouse from 6:30 pm–9:30 pm (see p. 10).

Tuesday, September 20, 2016

- 6:30 am–5:00 pm Shuttle service available between the American Bank Center and the Omni Hotel, p. 10
- 7:00 am–8:30 am Women in Geosciences Breakfast, Lower Level, Room 103, p. 8
- 7:00 am–12:00 noon Registration Open, Inside Watergarden A, p. 12
- 7:00 am–5:00 pm Speakers/Judges Room Open, Room 225A/B, p. 13
- 7:30 am–8:00 am Speakers/Poster Presenters Breakfast, Henry Garrett A, p. 11
- 8:00 am–10:00 am Guest Hospitality, Omni Hotel, Room 1754, p. 36
- 8:25 am–10:40 am Oral Session: Enhanced Secondary Recovery/Reservoir Pressure Prediction, Henry Garrett C, pp. 16 & 23
- 8:25 am–10:40 am Oral Session: Geo Education, Henry Garrett D, pp. 16 & 24
- 8:25 am–11:30 am Oral Session: Gulf of Mexico Deepwater Field Studies, Henry Garrett B, pp. 16 & 23
- 8:25 am–11:30 am Oral Session: Changing Coastal Landscape, Room 225C, pp. 16 & 24

Tuesday, September 20, Continued

- 8:25 am–11:30 am Oral Session: Protecting and Stewarding Water Resources, Room 225D/E, pp. 16 & 25
- 8:30 am–1:30 pm Poster Session 3, Exhibit Hall, Watergarden A/B, pp. 16 & 32
- 8:30 am–1:30 pm Exhibits/Posters Open at Watergarden A/B, p. 12
- 9:30 am–1:45 pm Guest Activity: Segway Tour of Corpus Christi Bayfront, p. 36
- 11:30 am–12:50 pm Expo Box Lunch in the Exhibit Hall, Watergarden A/B, p. 8
- 11:45 am–1:15 pm Tuesday Luncheon: GCSSEPM: Predicting Sedimentary System Response to Human Activities: The Once and Future Mississippi Delta, Lower Level, Room 102, p. 8
- 11:45 am–1:15 pm Tuesday Luncheon: AAPG DPA: Geologists, the Public, and Public Policy: What are our ethical responsibilities?, Henry Garrett Ballroom A, p. 9
- 11:45 am–1:15 pm Tuesday Luncheon: Local History: 1919 The Storm, Lower Level, Room 103, p. 9
- 1:25 pm–2:45 pm Oral Session: Uranium Resources, Henry Garrett D, pp. 16 & 27
- 1:25 pm–2:45 pm Oral Session: Changing Coastal Landscape, Room 225C, pp. 16 & 27
- 1:25 pm–4:05 pm Oral Session: Plate Tectonic Studies, Henry Garrett B, pp. 16 & 26
- 1:25 pm–4:30 pm Oral Session: Conventional Clastics and Carbonates, Henry Garrett C, pp. 16 & 26
- 1:25 pm–4:30 pm Oral Session: Protecting and Stewarding Water Resources, Room 225D/E, pp. 16 & 27
- 2:00 pm–5:00 pm Guest Hospitality, Omni Hotel, Room 1754, p. 36
- 2:45 pm–3:15 pm Session Coffee Break, Level 2 escalator lobby and Henry Garrett Prefunction

ExxonMobil

All events will be held at the American Bank Center (ABC)
Convention Center, Second Level, 1901 Shoreline Blvd.,
Corpus Christi, Texas, unless otherwise noted.

OPENING SESSION and AWARDS CEREMONY

Date: Sunday, September 18

Time: 5:00 pm–6:00 pm

Location: Henry Garrett Ballroom B

Join GCAGS President Brent Hopkins, GCSSEPM President Dorene West, and General Chairman Dawn Bissell in welcoming attendees to Corpus Christi and acknowledging worthy individuals for their contribution to both GCAGS and GCSSEPM. **Entrance by badge only.**

ICEBREAKER RECEPTION

Date: Sunday, September 18

Time: 6:00 pm–8:00 pm

Location: Exhibit Hall (Watergarden A/B)

Margaritas and Mariachis! See old friends and meet new ones as you check out the Exhibit Hall. **Entrance by badge only.**

ALL-CONVENTION LUNCHEON

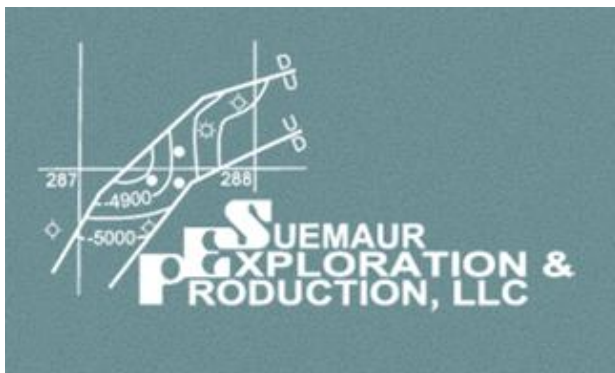
Date: Monday, September 19

Time: 11:45 am–1:15 pm

Location: Henry Garrett Ballroom A

Cost: \$50

Join us for the All-Convention Luncheon, where Charles Sheppard, Vice President Exploration, EOG Resources, will be our keynote speaker. He will discuss "U.S. Exploration Success (Lower 48 Onshore Focus)." Space is limited, so purchase your ticket early.



HEADINGTON
ENERGY PARTNERS, LLC

HAPPY HOUR IN THE EXHIBIT HALL

Date: Monday, September 19

Time: 5:00 pm–6:00 pm

Location: Exhibit Hall (Watergarden A/B)

Hosted by GCAGS President Brent Hopkins and GCSSEPM President Dorene West Join Brent, Dorene, and Dawn Bissell, General Chairman, for a reception in the exhibit hall. We will have light refreshments and a drink before we head over to Brewster Street Icehouse for 4-star food in a casual environment and some awesome bluegrass music.

Entrance by badge only.

BREWSTERS AND BLUEGRASS

(Sponsored by CGG, Dawson, EGI-Seismic, and Seitel)

Date: Monday, September 19

Time: 6:30 pm–9:30 pm

Location: Brewster Street Icehouse

Cost: \$50 (includes buffet, 2 drink tickets, and entertainment)

Brewster Street Icehouse is the centerpiece of Corpus Christi's Sports, Entertainment, and Art District offering an indoor-outdoor venue with great food, cold beer, and great views.

South Texas Grassroots features two of our local geologists and a two-time Texas State fiddle champion playing bluegrass and classic country music.

WOMEN IN GEOSCIENCES BREAKFAST



Date: Tuesday, September 20

Time: 7:00 am–8:30 am

Location: Room 103

Cost: \$25

Join us in celebrating Gulf Coast Women in Geosciences in this special breakfast networking event. Robbie Gries, past president of AAPG and founder and President of Priority Oil and Gas LLC, will discuss "Pioneering Women in Petroleum Geology...the Deep and Real History." Space is limited, so purchase your ticket early.

EXHIBIT HALL 'WALK & TALK' BOX LUNCH

Date: Tuesday, September 20

Time: 11:30 am–1:15 pm

Location: Exhibit Hall (Watergarden A/B)

Cost: \$25

Pre-purchase a box lunch and take this final opportunity to visit the offerings of our exhibitors, the posters, and their authors. The exhibit hall closes at 1:30 pm, so hurry over following the close of the morning's oral sessions.

GCSSEPM LUNCHEON



Date: Tuesday, September 20

Time: 11:45 am–1:15 pm

Location: Room 102

Cost: \$50

Mike Blum, Ritchie Distinguished Professor, University of Kansas, will present "Predicting Sedimentary System Response to Human Activities: The Once and Future Mississippi Delta."

Aurora Minerals

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AAPG DPA LUNCHEON



Date: Tuesday, September 20
Time: 11:45 am–1:15 pm
Location: Henry Garrett Ballroom A
Cost: \$50

Dr. Rusty Riese drills into some of today's hotly contested topics of public discourse, including fracking, public education, and climate change; and investigates our role as geoscientists in these public arenas. Dr. Riese advocates becoming involved in shoring up the scientific foundations of the next generation and speaking out about the science behind our work. Join Dr. Riese in this event, hosted by the AAPG's Division of Professional Affairs, for a plated luncheon and thought-provoking conversation. This talk should qualify for a formal Professional Development Hour for Ethics.

LOCAL HISTORY LUNCHEON – 1919 The Storm



Date: Tuesday, September 20
Time: 11:45 am–1:15 pm
Location: Room 103
Cost: \$50

Local historian and businessman Jim Moloney will discuss his book, "1919 The Storm," about a hurricane that devastated Corpus Christi and the surrounding area. A few copies of the book by the same title will be available for sale.

CORPUS CHRISTI GEOLOGICAL SOCIETY GOLF OUTING

Date: Sunday, September 18
Time: 8:00 am
Maximum: 100 golfers

The CCGS Golf Outing will be held at NorthShore Country Club across the bay from the Omni Hotel and ABC Center in Portland, Texas. This Championship links style course on the shores of Corpus Christi Bay is reminiscent of the many famous ocean front golf courses in the United States. Cost includes a round of golf, golf cart, and Sunday Bruch after the round. Please contact Fermin Munoz at fmunoz04@hotmail.com, 361-960-1126 (cell) for more information.

GCAGS Continuity Committee Meeting

Saturday, September 17, 6:00 pm–8:30 pm
Omni Hotel, Matagorda Room

By invitation only.

GCAGS BOARD MEETING

Sunday, September 18, 8:00 am–3:00 pm
Omni Hotel, Bayview Room

GCAGS Officers, Committee Chairs, and Society Presidents or their representatives are invited to attend the Board Meeting. By invitation only.

AAPG House of Delegates' Breakfast

Monday, September 19, 7:00 am–8:30 am
Omni Hotel, Nueces A

All representatives to the AAPG House of Delegates are invited to attend.

SHUTTLE SERVICE

A shuttle bus will run between the American Bank Center and the Omni Hotel approximately every 10–15 minutes during the following hours:

Sunday, September 18 • 3:00 pm–8:30 pm

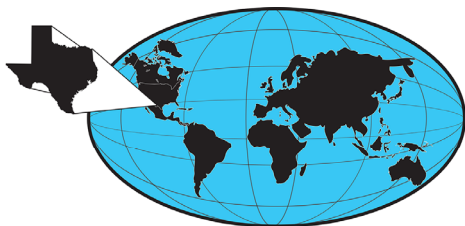
Monday, September 19 • 6:30 am–6:30 pm

Tuesday, September 20 • 6:30 am–5:00 pm

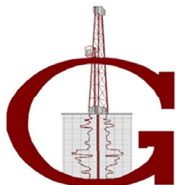
SPECIAL SHUTTLE TO BREWSTER STREET ICEHOUSE

Monday, September 19 • 6:30 pm–9:30 pm

Shuttle routing between the American Bank Center to the Omni Hotel will end at 6:30 pm, with new routing between the Omni Hotel and Brewster Street Icehouse from 6:30 pm–9:30 pm.



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CASH-BASIS FOOD AND BEVERAGE OPTIONS DURING GCAGS 2016

In addition to our ticketed and invitational events—Icebreaker, Happy Hour, breakfasts, luncheons, and ‘walk & talk’ lunch (see pp. 8–10 and 12 and visit Registration for availability)—the following options are also available on a cash basis.

Sunday, September 18

Coffee Cart, Level 2, top of escalators: 8:00 am–4:00 pm (Level 2, top of escalators)

(Hester's Café, located in the Art Museum of South Texas immediately adjacent to the American Bank Center, is open for lunch Sunday and Tuesday; closed Monday.)

Monday, September 19, and Tuesday, September 20

The Market, Level 1: 7:30 am–2:00 pm (serving breakfast and lunch)

Dogfather and Fuzzy's Tacos, Level 1: 11:00 am–2:00 pm

Coffee Cart, Level 2: 7:00 am–2:00 pm



A SUPERIOR ENERGY SERVICES COMPANY

REGISTRATION

Location: Watergarden A

Dates & Times:

Saturday, September 17	3:00 pm–6:00 pm
Sunday, September 18	7:00 am–8:00 pm
Monday, September 19	7:00 am–6:00 pm
Tuesday, September 20	7:00 am–12:00 noon

THE EXHIBITION

Location: Watergarden A/B

Dates & Times:

Sunday, September 18 (Icebreaker)	6:00 pm–8:00 pm
Monday, September 19	8:30 am–6:00 pm
Tuesday, September 20	8:30 am–1:30 pm

THE GCAGS EXHIBITION—Where Geoscience Meets Industry: Networking, technology, information systems, and data all under one roof!

Explore the displays of service companies, a fossil and gem dealer, research institutions, and publishers during the two and a half days of the exhibition. Please support all those who have made this vital commitment to the success of the convention, now more than ever in these dynamic times for our industry.

Need to check on emails or search for exhibitors' products and services online? Free wifi is available throughout the American Bank Center or utilize the cybercafé located in the exhibit hall for your convenience.

Note: Children under the age of 13 will not be allowed in the Exhibit Hall anytime during setup or teardown. During exhibit hours, children not of school-age will not be allowed into any activities within the Exhibit Hall, including the Icebreaker reception, unless they are young enough or small enough to be confined to a stroller, backpack, or front pack. School-age children will be allowed to attend the exhibition during regularly scheduled hours if they are properly registered (as students) and they wear their badges at all times.

SPEAKERS & POSTER PRESENTERS BREAKFAST

Dates: Monday and Tuesday, September 19 & 20

Time: 7:00 am–8:00 am

Location: Henry Garrett A

All session chairs, speakers, and poster presenters are invited to attend this complimentary breakfast on the day of their presentations. You can meet the other presenters for your session and get poster presenter ribbons for your name badge. Presenter/Session Chair ribbons will be available both at the breakfast and in the Speaker Ready Room 225A/B. Poster supplies are available in the in the Ready Room.

JUDGES BREAKFAST

Date: Monday, September 19 ONLY

Time: 7:00 am–8:00 am

Location: Henry Garrett A

All judges are invited to attend this complimentary breakfast on Monday. Information will be provided as to judging criteria and regarding which sessions to attend. Instructions and judging forms will be available at both the breakfast and in the Speakers/Poster Presenters/Judges Room.

SPEAKERS & POSTER PRESENTERS ROOM & JUDGES TALLY ROOM

Location: Room 225A/B

Dates & Times:

Sunday, September 18.....	1:00 pm–5:00 pm
Monday, September 19.....	7:00 am–6:00 pm
Tuesday, September 20.....	7:00 am–5:00 pm

STUDENT PARTICIPATION

We offer a special registration fee (only \$35) to facilitate student participation. This fee is applicable for students or new grads who have not yet accepted employment offers. Students may also register as a Student Volunteer. If selected, you will receive a refund of your registration fee after you have worked a half day, as assigned. This fee allows entry to the Opening Session, Icebreaker, Exhibition, all technical sessions, reduced rates for short courses and select field trips, all coffee breaks, the Monday Happy Hour in the exhibit hall, and a digital copy of the 2016 *GCAGS Transactions*. See page 35.

TEACHER ACTIVITIES

"Make Your Class Exciting Through Earth Science" is an earth science workshop and field trip for K–12 teachers that will reinforce core earth science knowledge for all levels. See page 35 for details.

SPOUSE & GUEST ACTIVITIES

Tour the Fulton Mansion and take a SegWay tour of the Bayfront. Visit us in the Hospitality Suite. For more information, please see page 36.

POSTER SESSIONS

The GCAGS 2016 poster sessions will take place in the Exhibit Hall (Watergarden A/B) on the second floor of the American Bank Center. Over 40 student research posters and 20 professional posters covering a diverse range of topics will rotate (Monday morning–Monday afternoon–Tuesday morning). Authors will be available for discussion during the coffee breaks on Monday and Tuesday mornings (9:45 am–10:15 am) and Monday afternoon (2:45 pm–3:15 pm). For more information, please see pages 16 & 28.

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HEI

Hydrate Energy International

OPENING SESSION AND AWARDS CEREMONY

5:00 pm–6:00 pm • Sunday, September 18

American Bank Center Henry Garrett Ballroom A

GCAGS President Brent Hopkins, GCSSEPM President Dorene West, and General Chairman Dawn Bissell will welcome attendees to the 66th annual GCAGS Convention. They will also honor individuals for exemplary service, presentations, and papers at the Awards Ceremony. **Entrance by badge only.**

The Awards Ceremony recognizes the 2016 recipients of GCAGS and GCSSEPM special honors, as well as the awardees of the best presentations and best published papers in the 2015 GCAGS Transactions and GCAGS Journal, all of whose works have made important contributions to GCAGS and the advancement of geosciences.

- The **GCAGS Transactions** (2016) will be dedicated to **Owen R. Hopkins**.
- The **GCAGS Distinguished Service Awards** (2016) will be presented to **Linda R. Sternbach, Brent Hopkins, and Alfredo Eduardo Guzman**.
- The **GCAGS Don R. Boyd Medal for Excellence in Gulf Coast Geology** (2016) will be presented to **Scott W. Tinker**.
- The **GCAGS Honorary Membership** (2016) will be presented to **Mary J. Broussard and Larry D. Bartell**.
- The **GCAGS Outstanding Educator** (2016) will be awarded to **Paul Weimer, Charles M. Woodruff, Jr., and Thomas L. McGehee**.
- The **GCAGS Special Commendation** (2016) will be presented to **Dianna Phu, Meredith L. Faber, Sandra Rushworth, and David Risch**.
- The **GCAGS Owen R. Hopkins Outstanding Earth Science Teacher Award** (2016) will be presented to **Leigh Marsh**.
- The **GCSSEPM Doris Curtis Malkin Medal** (2016) will be presented to **Mark G. Rowan, Rowan Consulting, Inc.**
- The **GCSSEPM Distinguished Service Award** (2016) will be presented to **Bruce Hart, Statoil**.
- The **2016 AAPG Gulf Coast Section Imperial Barrel Award** – **1st Place, University of New Orleans; 2nd Place, University of Houston; and 3rd Place, Texas A&M University**.
- The **2015 AAPG Gulf Coast Section A. I. Levorsen Memorial Award** – **Elizabeth Ann Watkins, Julio Tamashiro, Marcelo Cristian Torrez Canaviri, Nicolas Martin, Eldar Guliyev, Renato Leite, Nhom (Vince) Nguyen, Abayomi Aina, and Mauro Roberto Becker**, “A Geology-Based, Non-Seismic Attribute Method to Generate Facies, Lithology, and Petrophysical Parameters in the Chinook and Cascade Fields, Walker Ridge, Gulf of Mexico, USA”
- The **2015 Thomas A. Philpott Excellence of Presentation Awards** will be presented to:
 - 1st Place: Christopher D. Walker, Glen A. Anderson, Paul G. Belvedere, Alison T. Henning, Francis O. Rollins, Eric Soza, and Shalina Warrior** for their paper, “Compartmentalization between the GC0738_1 Mad Dog North Wellbores—Evidence for Post-Depositional Slumping in the Lower Miocene Reservoirs of the Deepwater Southern Green Canyon, Gulf of Mexico”
 - 2nd Place: Pilar Rojas** for her paper, “The Road to Shell’s Appomattox Discovery”
 - 3rd Place: Clement Bataille, Gabriel Bowen, Dylana Watford, Alex Lowe, Stephen Ruegg** for their paper, “Chemostratigraphic-Based Age Model for the Black Peaks Formation: Implications for Early Paleogene Paleoclimate in Sub-Tropical North America”
- The **2015 Gordon I. Atwater Best Poster Awards** will be presented to:
 - 1st Place: Alessio Checconi, Peter Conn, and James Stockley, and Edward Smith, David Little, Erika Tibocha** for their poster, “Post Well Analysis of Gulf of Mexico: A Multidisciplinary Approach for a More Confident Understanding of this Complex Petroleum System”

2nd Place: James A. MacKay for his poster, "Comparing the Results of the Kelly Criterion and Risk Aversion: Quick Look Practical Alternatives to Portfolio Optimization"

3rd place: Selim Simon Shaker for his poster, "A New Approach to Pore Pressure Predictions: Generation, Expulsion, and Retention Trio—Case Histories from the Gulf of Mexico"

- The **2015 Grover E. Murray Best Published Paper Awards, GCAGS Transactions**, will be presented to:

1st place: Kathleen S. Haggar, Les R. Denham, and Louis J. Berent for their paper, "Analysis of the Goose Point area near Lacombe, Louisiana, Validates New Geophysical Data Type – Natural Sourced Electromagnetism (NSEM) – for Detection of Lineaments Associated with Faults and Sedimentary Features"

2nd place: Elizabeth Ann Watkins, Julio Tamashiro, Marcelo Cristian Torrez Canaviri, Nicolas Martin, Eldar Guliyev, Renato Leite, Nhom (Vince) Nguyen, Abayomi Aina, and Mauro Roberto Becker for their paper, "A Geology-Based, Non-Seismic Attribute Method to Generate Facies, Lithology, and Petrophysical Parameters in the Chinook and Cascade Fields, Walker Ridge, Gulf of Mexico, USA"

3rd place: Christopher D. Walker, Glen A. Anderson, Paul G. Belvedere, Alison T. Henning, Francis O. Rollins, Eric Soza, and Shalina Warrior for their paper, "Compartmentalization between the GC0738_1 Mad Dog North Wellbores—Evidence for Post-Depositional Slumping in the Lower Miocene Reservoirs of the Deepwater Southern Green Canyon, Gulf of Mexico"

- The **2015 President's Award for Outstanding Paper, GCAGS Journal (vol. 4)**, will be presented to:

Shirley P. Dutton, Robert G. Loucks, and William A. Ambrose, "Factors Controlling Permeability Variation in Onshore, Deep Paleogene Wilcox Sandstones in the Northern Gulf of Mexico Basin: Targeting High-Quality Reservoirs"



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MONDAY MORNING · SEPTEMBER 19

Gulf of Mexico Deepwater Plays (Henry Garrett B) (8:25 am–11:30 am)
 Eagle Ford—Understanding the Unconventionals (Henry Garrett C) (8:25 am–11:30 am)
 Gulf of Mexico Systems (Henry Garrett D) (8:25 am–11:05 am)
 Advances in Geophysics (Room 225C) (8:25 am–11:30 am)
 Salt Tectonics (Room 225D/E) (8:25 am–11:05 am)
 Reservoir Quality and Prediction (Room 226) (8:25 am–11:05 am)
 Poster Session 1 (Exhibit Hall) (8:30 am–11:30 pm)

MONDAY AFTERNOON · SEPTEMBER 19

All-Convention Luncheon (Henry Garrett A) (11:45 am–1:15 pm)
 Gulf of Mexico Deepwater Plays (Henry Garrett B) (1:25 pm–2:45 pm)
 Eagle Ford—Understanding the Unconventionals (Henry Garrett C) (1:25 pm–4:30 pm)
 Gulf of Mexico Systems (Henry Garrett D) (1:25 pm–4:05 pm)
 Advances in Geophysics (Room 225C) (1:25 pm–4:30 pm)
 Gulf of Mexico Field/Case Studies (Room 225D/E) (1:25 pm–4:30 pm)
 New/Improved Methodologies with Applications to Petroleum E&P (Room 226) (1:25 pm–4:30 pm)
 Poster Session 2 (Exhibit Hall) (1:30 pm–6:00 pm)
 Exhibits/Posters Happy Hour (Watergarden A/B) (5:00 pm–6:00 pm)

TUESDAY MORNING · SEPTEMBER 20

Women in Geosciences Breakfast (Room 103) (7:00 am–8:30 am)
 Gulf of Mexico Deepwater Field Studies (Henry Garrett B) (8:25 am–11:30 am)
 Enhanced Secondary Recovery/Reservoir Pressure Prediction (Henry Garrett C) (8:25 am–10:40 am)
 Geo Education (Henry Garrett D) (8:25 am–10:40 am)
 Changing Coastal Landscape (Room 225C) (8:25 am–11:30 am)
 Protecting and Stewarding Water Resources (Room 225D/E) (8:25 am–11:30 am)
 Poster Session 3 (Exhibit Hall) (8:30 am–1:30 pm)

TUESDAY AFTERNOON · SEPTEMBER 20

DPA/Ethics Luncheon (Henry Garrett A) (11:45 am–1:15 pm)
 Local History Lunch (Lower Level, Room 103) (11:45 am–1:15 pm)
 GCSSEPM Luncheon (Lower Level, Room 102) (11:45 am–1:15 pm)
 Expo Box Lunch (Watergarden A/B) (11:30 am–1:15 pm)
 Plate Tectonic Studies (Henry Garrett B) (1:50 pm–4:05 pm)
 Conventional Clastics and Carbonates (Henry Garrett C) (1:25 pm–4:30 pm)
 Uranium Resources (Henry Garrett D) (1:25 pm–2:45 pm)
 Changing Coastal Landscape (Room 225C) (1:25 pm–2:45 pm)
 Protecting and Stewarding Water Resources (Room 225D/E) (1:25 pm–4:30 pm)
 Session Coffee Break (Level 2 escalator lobby and Henry Garrett Prefunction) (2:45 pm–3:15 pm)

All sessions will be held at the American Bank Center.
Poster Sessions: Exhibit Hall (Watergarden A/B)
Oral Sessions: Henry Garrett Ballrooms B, C, and D, and
Rooms 225C, 225D/E, and 226
Breakfast/Luncheons: Henry Garrett Ballroom A and
Rooms 102 and 103 (Lower Level)

MONDAY MORNING, SEPTEMBER 19 —ORAL SESSIONS—

GULF OF MEXICO DEEPWATER PLAYS (Henry Garrett B)

Session Chairs: Paul Weimer and John Wagner

- 8:25** **OPENING REMARKS**
8:30 **Paul Weimer, Eric Zimmerman, Renaud Bouroullec, Steve Cumella, James Adson, William Gutterman, Travis Payeur, Brandon Snyder, Harrison Hirsh, and Daniel Bettinger:** Temporal and Spatial Evolution of Reservoirs, Northern Deepwater Gulf of Mexico
- 8:55** **Paul Weimer, Renaud Bouroullec, Eric Zimmermann, Henry Pettingill, and William Gutterman:** Temporal and Spatial Evolution of Traps, Northern Deepwater Gulf of Mexico
- 9:20** **Paul K. Wieg:** Large-Scale Depositional Characteristics of the Wilcox Formation, Central Gulf of Mexico Deepwater
- 9:45** **BREAK**
10:15 **Jason Kegel, Daniel Chaikin, and Brad Torry:** New Insights from 3D Data over an Extinct Spreading Ridge and its Implications to Deepwater Offshore Exploration
- 10:40** **Paul Weimer, Renaud Bouroullec, Veit Matt, James Adson, Aaron van den Berg, Todd Lapinski, and John Roesink:** Petroleum Geology of the Mississippi Canyon, Atwater Valley, Western DeSoto Canyon, and Western Lloyd Areas, Northern Deepwater Gulf of Mexico: Seals, Source Rocks, Generation, and Accumulation
- 11:05** **Eric Zimmermann, Carlos Guzman, Mike Vercher, Stan Hewitt, Anish Kumar, Michael Mahnke, Vinay K. Mishra, Elizabeth Ruiz, and Nellyana Charmelo:** Geological Interpretation of Mass-Transport Deposits in the Deepwater Gulf of Mexico: Integrating Borehole Geology, Borehole Geophysics, and Reservoir Engineering

EAGLE FORD—UNDERSTANDING THE UNCONVENTIONALS (Henry Garrett C)

Session Chairs: Tucker Hentz and Steven C. Ruppel

- 8:25** **OPENING REMARKS**
8:30 **Ursula Hammes, Raymond Eastwood, Guin McDaid, Emilian Vankov, Jeffrey Yarus, and Amin Gherabati:** Regional Assessment of the Eagle Ford Group of South Texas, USA: Insights from Lithology, Pore Volume, Water Saturation, Organic Richness, and Productivity Correlations
- 8:55** **T. Scott Staerker, Jim Pospichal, Bronwyn Moore, Matthew Wehner, Matthew J. Corbett, Christopher M. Lowery, Michael C. Pope, and Arthur D. Donovan:** Biostratigraphy for Understanding Stratal Surfaces and Facies Variability in the Eagle Ford Group of South and West Texas
- 9:20** **John D. Pierce, Stephen C. Ruppel, Harry Rowe, and Daniel F. Stockli:** U–Pb Geochronology and Sources of Volcanic Ash Beds in the Upper Cretaceous Eagle Ford Shale, South Texas
- 9:45** **BREAK**
10:15 **Richard A. Denne and John A. Breyer:** Regional Depositional Episodes of the Cenomanian-Turonian Eagle Ford and Woodbine Groups of Texas and their Relationship to Oceanic Anoxic Event 2 (OAE2)

Monday AM Oral Sessions, Continued

- 10:40 Tobi Kosanke:** Pore Characterization and Geologic Controls on Matrix Permeability of the Eagle Ford Shale
- 11:05 Bo Chen, Dhananjay Kumar, Anthony Uerling, Sheryl Land, Omar Aguirre, Tao Jiang, and Setiawardono Sugianto:** Using Seismic Inversion and Net Pay to Calibrate Eagle Ford Shale Producing Resources

GULF OF MEXICO SYSTEMS (Henry Garrett D)

Session Chair: Dallas Dunlap

- 8:25 OPENING REMARKS**
- 8:30 Andrew S. Pepper:** Back to the Rocks: Framework of Depositional Acmes in Source Rocks of the Gulf of Mexico Basin and North Caribbean Margin
- 8:55 Peter Rose:** Late Cretaceous and Tertiary Burial History of Central Texas
- 9:20 Kyle Gabb and Harry Rowe:** Close Proximity High Resolution Chemostratigraphic Profile of the Upper Cretaceous Formations of Central Texas, USA
- 9:45 BREAK**
- 10:15 Victor Mistretta:** Predicting Sedimentary Facies in the Gulf of Mexico Region from the Combination of Bathymetry, Gravity, and Magnetic Data using Fractal Geometry
- 10:40 Thomas E. Ewing and Juan L. Gonzalez:** The Late Quaternary Rio Grande Delta—A Distinctive, Underappreciated Geologic System

ADVANCES IN GEOPHYSICS (Room 225C)

Session Chairs: Selim Shaker and Ed Egger

- 8:25 OPENING REMARKS**
- 8:30 Jerry Kapoor and Denes Vigh:** Full Waveform Inversion for Detailed Velocity Analysis
- 8:55 K. Rene' Mott, William Keller, and Mike Perz:** 5D Interpolation Adds Value at the Drill Bit for a Texas 3D Seismic Survey
- 9:20 Randy Bissell:** The Forgotten Curvature: Applications for the Negative of the Second Derivative to Post-Stack Seismic Reflection Trace Volumes
- 9:45 BREAK**
- 10:15 Vladimir Rybakov, Irina Mardanov, and Yingwei Yu:** Case Study: The Use of Seismic Attributes to Detect Channels and Enhance Stratigraphic Trap Interpretation
- 10:40 Gary L. Kinsland, Robert Stewart, Li Chang, Doug Temple, and Mark King:** High Resolution Surface-Sourced Seismic Experiment to Image Wilcox Group Horizons in Northern Central Louisiana
- 11:05 Mark C. Robinson and Roger Espinosa:** Utilizing 3D Pseudo-Seismic Data Volumes for Stratigraphic Interpretation and Delineation of the Carter Sand Member of the Mississippian Parkwood Formation in the Black Warrior Basin, Alabama



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Monday AM Oral Sessions, Continued

SALT TECTONICS
(Room 225D/E)

Session Chairs: Carl Fiduk and Rachelle Kernan

8:25 OPENING REMARKS

8:30 Jean Pierre Malbrough and Abu Kabir Mostafa Sarwar: Lower Tertiary Intra-Miocene Wedge and Salt Glacier, Keathley Canyon, Gulf of Mexico

8:55 Muhammad Nawaz Bugti and Paul Mann: What is the Limiting Factor for Hydrocarbon Prospects of the Port Isabel Passive Margin Foldbelt, Northwestern Gulf of Mexico?

9:20 C. Evelyn Gannaway, Katherine A. Giles, Mark G. Rowan, Thomas E. Hearon IV, and J. Carl Fiduk: Stratigraphic and Structural Characteristics of a Megaflap Flanking the Witcheline Diapir, Willouran Ranges, Australia

9:45 BREAK

10:15 Rachelle Kernan, Katherine Giles, C. Gannaway, Mark Rowan, and Joseph Fiduk: Understanding the Origin of Deformed Stratigraphic Blocks inside the Neoproterozoic Patavarta Diapir, Flinders Ranges, South Australia

10:40 J. Carl Fiduk, Vivian Robertson, Marianne Clippard, George A. Jamieson, and Sarah Power: Extensional Salt Keels Detached on Eocene-Oligocene Sediments in the Deepwater Northern Gulf of Mexico: Insights into Canopy Advancement, Salt-Sediment Interplay, and Evidence for Unrecognized Mass Sediment Displacement

RESERVOIR QUALITY AND PREDICTION
(Room 226)

Session Chair: Maggie Dalthorp

8:25 OPENING REMARKS

8:30 John Smythe, Henrik Roende, Brad Torry, and Richard Griffin: Large-Scale Seismic Acquisition in Congested, Shallow Water Areas: Observations from Modern OBN Data in the Gulf of Mexico

8:55 Ajayendra 'AJ' Kumar, Zheng Gan, Lucien Morales, Ted Griffin, and John Dacy: Micro-CT Imaging—A Powerful Tool for Screening and Rapid Quantification of Rock Properties

9:20 Vegar Ravlo, Pradeep [Withdrawn] Jackstedt, and Lucy Plant: Using Digital Rock Technology for Reservoir Characterization

9:45 BREAK

10:15 David Carr, Kerstan Wallace, Changbing Yang, and Andrew Nicholson: CO₂ Sequestration Capacity Sectors in Miocene Strata of the Offshore Texas State Waters

10:40 HaiHong Wang, Howard Titchmarsh, Kevin Chesser, Jeff Zawila, Samuel Fluckiger, Gary Hughes, Edwin Kerr, Andrew Hennes, and Michael Hofmann: Maximizing Recoverable Reserves in Tight Reservoirs Using Geostatistical Inversion from 3D Seismic Data: A Powder River Basin Case Study



MONDAY AFTERNOON, SEPTEMBER 19
—ORAL SESSIONS—
GULF OF MEXICO DEEPWATER PLAYS
(Henry Garrett B)

Session Chairs: Paul Weimer and John Wagner

1:25 OPENING REMARKS
1:30 Jeff Kao and John Wagner: Examining Depositional Controls on Deepwater Wilcox Reservoirs in the Gulf of Mexico Basin

1:55 Paul Weimer, Eric Zimmermann, Renaud Bouroullec, Steve Cumella, James Adson, William Guttermann, Travis Payeur, Brandon Snyder, Harrison Hirsh, and Daniel Bettinger: Litho- and Biostratigraphic Evolution of the Middle Jurassic through Top Cretaceous Strata, Northern Deepwater Gulf of Mexico: Preliminary Results

2:20 Paul Weimer, Richard Denne, Eric Zimmermann, Steve Cumella, Brandon Snyder, Harrison Hirsh, Daniel Bettinger, William Guttermann, and Travis Payeur: Variations in Well Log Expression of the KPg Boundary Chicxulub Deposit, Northern Deepwater Gulf of Mexico: Preliminary Results

EAGLE FORD—UNDERSTANDING THE UNCONVENTIONALS
(Henry Garrett C)

Session Chairs: Tucker Hentz and Steven C. Ruppel

1:25 OPENING REMARKS
1:30 Lee Billingsley, Bill Layton, and Luke Finger: Geoscience Applications to Economic Development of a Relatively Shallow, Low Gravity, Structurally Complex Eagle Ford Oil Development, Atascosa County, Texas

1:55 Harry Rowe and Stephen Ruppel: Chemofacies and Stable Carbon Isotope Analysis of the Cenomanian-Turonian Eagle Ford Formation: Sedimentation and Water Mass Evolution in the Maverick Basin, Southwestern Texas

2:20 Greg Frebourg, Stephen Ruppel, Robert Loucks, and Josh Lambert: Depositional Controls on Sediment Body Architecture in the Eagle Ford/Boquillas System: Insights from Outcrops in West Texas, USA

2:45 BREAK
3:15 Timothy Shane: Geochemical Analysis of Parasequences within the Productive Middle Member of the Eagle Ford Formation at Lozier Canyon Near Del Rio, Texas

3:40 Robert Loucks and Robert Reed: Some Thoughts on the Existence and Importance of Natural Microfractures in Unconventional Shale-Oil and Shale-Gas Systems: Real, Imaginary, Wrongly Defined, or Hypothetical?

4:05 George B. Asquith: 'Shale Sweet Spots' Based on Pe Versus RHO_b Cross Plots and OGIPscf with and without Using Geochemical Logs, Jurassic Haynesville Shale


Monday PM Oral Sessions, Continued

GULF OF MEXICO SYSTEMS

(Henry Garrett D)

Session Chair: Dallas Dunlap

1:25 OPENING REMARKS

1:30 Thomas E. Ewing: Pliocene Sub-Willis Unconformity in Southeastern Texas: Forebulge to the Pliocene Mississippi Delta

1:55 Ohood B. AlSalem, Majie Fan, and Xiangyang Xie: Subsidence and Burial Histories of the Fort Worth Basin Reflect Prolonged Ouachita Orogeny during the Mississippian-Permian

2:20 Leipin He and Rex Poling: Post-Jurassic Sedimentary History of the Eastern Gulf of Mexico

2:45 BREAK

3:15 Cian O'Reilly, James Keay, Alex Fick, Alex Birch Hawkins, Dario Chisari, Jason Kegel, and Brad Torry: Structural Styles and Regional Play Types in the Mexican Offshore from New Seismic Data

ADVANCES IN GEOPHYSICS

(Room 225C)

Session Chairs: Selim Shaker and Ed Egger

1:25 OPENING REMARKS

1:30 Louis Berent and Roice Nelson: Lightning Sparks Interest in the Unconventional Mapping of Active Subsurface Faults

1:55 Samuel LeRoy, Oleg Kouznetsov, Yury Lyasch, Igor Chirkin, Evgeny Rizanov, and Achmed Radwan: Seismic Support for Finding and Developing Fractured Oil and Gas Reservoirs: The Russian Experience with 'Side-View' and Microseismic in Imaging Fracture Intensity and Hydrocarbon Saturation

2:20 Chong Zeng, Shuqian Dong, Zhaohong Wu, Jean Ji, Darrell Armentrout, and Bin Wang: Practical Application of Adaptive Least-Squares Reverse Time Migration (LSRTM) to Advance Field Development and Uncover New Reserves in the Subsalt Provinces

2:45 BREAK

3:15 James Brewster, John Mims, and Alan Morgan: Source Body Migration, an Approximate Inversion Method for Full Tensor Gravity Gradiometer Data

3:40 Kathleen S. Haggard, Les R. Denham, and H. Roice Nelson, Jr.: New Lightning Attribute Volumes Compared to the Texas Bureau of Economic Geology (BEG) Stratton 3D Seismic Survey

4:05 Sharon Cornelius and Pete Emmet: A Geological 3D Velocity Model in Keathley Canyon and Walker Ridge, Gulf of Mexico



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Monday PM Oral Sessions, Continued

GULF OF MEXICO FIELD/CASE STUDIES (Room 225D/E)

Session Chairs: Bill Ambrose and Rick Paige

1:25 **OPENING REMARKS**

1:30 **Rick Paige:** Chile Vieja Field: 3D Seismic Adds over 70 BCF of Reserves by Revealing that a 'Bald' Structural High is Actually a Small, Shale-Filled Canyon

1:55 **William A. Ambrose, Shirley P. Dutton, and Robert G. Loucks:** Depositional Systems, Facies Variability, and their Relationship to Reservoir Quality in the Eocene Upper Wilcox Group in Fandango Field, Zapata County, Texas

2:20 **Shirley P. Dutton, William A. Ambrose, and Robert G. Loucks:**

Diagenetic Controls on Reservoir Quality in Deep Upper Wilcox Sandstones in the Rio Grande Delta System, South Texas

2:45 **BREAK**

3:15 **Ross Saunders, Ahmed Ammar, Chuck Henry, Tim Wilkinson, Mike Frismanis, Mike Bradshaw, Jeff Codd, and David Kessler:** Revitalizing an Old Field—Main Pass 73—Gulf of Mexico Shelf

3:40 **Andrew J. Petty and Erin T. Elliott:** Hydrocarbons of the Viosca Knoll 204 Field Pensacola Clay, Upper Miocene, Northeastern Gulf of Mexico, with Gas Source Implications and Trends

4:05 **Jeff A. Spencer:** The White Point Gassers, San Patricio County, Texas

NEW/IMPROVED METHODOLOGIES WITH APPLICATIONS TO PETROLEUM E&P (Room 226)

Session Chair: Matt Hammer

1:25 **OPENING REMARKS**

1:30 **David Little, Edward Smith, Jason Kegel, and Brad Torry:** Understanding the Complex Petroleum Systems of the Greater Gulf of Mexico Using Post Well Analysis in Both U.S. and Mexican Territories

1:55 **Gary K. Rice:** Integration of Independent Exploration Data

2:20 **James A. MacKay and Gary P. Citron:** Stress Testing Your Portfolio of Exploration Projects

2:45 **BREAK**

3:15 **James A. MacKay and Gary P. Citron:** Utilizing the Kelly Criterion to Select the Best Projects when Capital is Temporarily Constrained

3:40 **Arthur Johnson and Michael Max:** Low Environmental Risk and Technology Options to Enable Commercial Development Natural Gas Hydrate

4:05 **Kelly Haggart:** New Geohazard Tools, Coupled with Lessons Learned in System Safety, Will Improve Infrastructure Safety which Engineering cannot do Alone



Kemco Resources, Inc.

TUESDAY MORNING, SEPTEMBER 20 —ORAL SESSIONS—

GULF OF MEXICO DEEPWATER FIELD STUDIES

(Henry Garrett B)

Session Chairs: Paul Weimer and John Wagner

- 8:25** **OPENING REMARKS**
8:30 **Earl Cumming and Eric Zimmermann:** Discovery and Development of the Who Dat Field (MC-547), Gulf of Mexico
8:55 **Kimberley Kuijper, Owen Stephens, and Krista Aleman:** Deepwater Depositional Environments and their Unique Challenges within Gunflint Field, Gulf of Mexico
9:20 **Ed Zinni:** The Exploration Evolution of Marmalard Field: A Result of Improved Seismic Algorithms and Methods
9:45 **BREAK**
10:15 **Christopher Walker and Glen Anderson:** Simple and Efficient Representation of Faults and Fault Transmissibility in a Reservoir Simulator—Case Study from the Mad Dog Field, Gulf of Mexico
10:40 **Owen Stephens, Rafael Pinto, Ben Maxey, and Kyle Gray:** Big Bend: Rapid Field Development Success through Geoscience Integration in the Gulf of Mexico
11:05 **Luke Francis and Leon Dzou:** Geochemical Evidence of Secondary Microbial Methane in Atlantis Field, Gulf of Mexico

ENHANCED SECONDARY RECOVERY/ RESERVOIR PRESSURE PREDICTION

(Henry Garrett C)

Session Chairs: Selim Shaker and Maggie Dalthorp

- 8:25** **OPENING REMARKS**
8:30 **Sean Kimiagar:** Using Analogs to Reality-Check Enhanced Oil Recovery Plans
8:55 **Margaret Dalthorp and Kevin Beidelman:** Geologic Input in the Workover Process Provides Valuable Analysis to Define 'Sanded Up'
9:20 **Selim Simon Shaker:** Velocity for Pore Pressure Prediction Modeling and Risk Assessment
9:45 **BREAK**
10:15 **Selim Simon Shaker and Walter Wornardt:** Strat-Geopressure Fairways—The Fast Track to Prospect Evaluation: Case History from the Gulf of Mexico

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Tuesday AM Oral Sessions, Continued

GEO EDUCATION (Henry Garrett D)

Session Chair: Mark Ford

- 8:25** **OPENING REMARKS**
8:30 **Rudolph A. Rosen, Erin Scanlon, and Johnnie Smith:** Aquatic Science Education Pathway from Headwaters to Ocean is a Model for Place-Based Experiential Learning for Protecting and Stewarding Gulf States' Freshwater and Marine Resources
- 8:55** **Walter Vernon Kramer:** Preparing Del Mar College Geology Majors for a University Program
- 9:20** **Mark T. Ford and Thomas L. McGehee:** Expanding Horizons: A Writing Intensive Undergraduate Field Camp to Prepare Students for the Future
- 9:45** **BREAK**
10:15 **Haibin Su and Brent Hedquist:** Developing Pathways to Geospatial Intelligence for South Texas Students: First Year Results

CHANGING COASTAL LANDSCAPE (Room 225C)

Session Chairs: Mark Besonen and Brent Hedquist

- 8:25** **OPENING REMARKS**
8:30 **Philippe Tissot and Anthony Reisinger:** Spatial Variability of Relative Sea Level Rise in the Texas Coastal Bend
- 8:55** **Johnathan Rice and Alexander Simms:** The Holocene History and Facies Architecture of the Nueces Bayhead Delta of the Northwestern Gulf of Mexico
- 9:20** **Timothy Kearns, Guoquan Wang, Yan Bao, Jiajun Jiang, and Dongje Lee:** Subsidence-Groundwater Interaction in the Houston Metropolitan Area (2005–2014)
- 9:45** **BREAK**
10:15 **Jeffrey Paine and Eddie Collins:** Lithological and Morphological Framework of Pleistocene Barrier Islands and Underlying Strata from Surface and Borehole Geophysics and Airborne Lidar in the Matagorda Embayment
- 10:40** **Edwin Jefferson Bomer IV, Samuel J. Bentley, Kehui Xu, and Qin Chen:** Sedimentation Dynamics and Stratigraphy of Middle Breton Sound Estuary, Southeastern Louisiana: Spatiotemporal Evidence for Subdeltaic Evolution
- 11:05** **John M. Swartz, John A. Goff, and Sean P. S. Gulick:** Depositional Processes and Stratigraphy of Heald Bank on the East Texas Inner Continental Shelf

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TECHNOLOGIES

Tuesday AM Oral Sessions, Continued

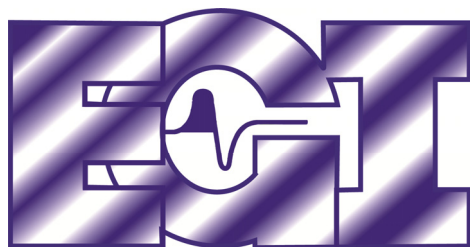
PROTECTING AND STEWARDING WATER RESOURCES

(Room 225D/E)

Session Chair: Dorina Murgulet

- 8:25** **OPENING REMARKS**
8:30 **Oludamilola Olusesan Alalade:** Removal of Hydraulic Fracturing Fluids from Petroleum Wastewater Using Sorption Techniques
8:55 **Douglas Carlson:** Influences on Water Quality of the Wilcox Aquifer in Northwestern Louisiana
9:20 **Jihoon Kang and Richard A. McLaughlin:** Passive Treatment of Bentonite Slurry Using Coagulants and Flocculants
9:45 **BREAK**
10:15 **Dorina Murgulet, Valeriu Murgulet, Richard Hay, and Alberto Mestas-Nuñez:** Relationships between Sea Surface Temperature Anomalies in the Pacific and Atlantic Oceans and South Texas Precipitation and Streamflow Variability
10:40 **Riaz Hossain Khan, Jennifer Smith-Engle, Philippe Tissot, and Dorina Murgulet:** Temporal Spatial and Depth Variations of Ground Water Chemistry: An Indicator of Hydro-Geochemical Evolution in Shallow Coastal Aquifers, South Texas
11:05 **Nicholas Spalt, Dorina Murgulet, and Audrey Douglas:** Variation in Submarine Groundwater Discharge (SGD) among Semi-Arid Depositional Environments

William M. Whiting



EXPLORATION GEOPHYSICS, INC.



THE Onshore Seismic Data Company

TUESDAY AFTERNOON, SEPTEMBER 20

—ORAL SESSIONS—

PLATE TECTONIC STUDIES(Henry Garrett B)

Session Chairs: Tom McGehee and Mark Ford

1:50 OPENING REMARKS

1:55 Paul Mann and Andrew Steier: Tweaking Pangea's Breakup: Triassic to Present Plate Tectonic Reconstructions Integrating Recent Geologic, Geophysical, and Hydrocarbon Data from the Atlantic and Gulf of Mexico Conjugate Margins

2:20 G. Randy Keller, Jay Pulliam, Harold Gurrola, and Kevin Mickus: An Overview of the Structure and Tectonic Evolution of the Gulf Coast Region of Texas and Louisiana

2:45 BREAK

3:15 Harold Gurrola, Jay Pulliam, Randy Keller, and Kevin Mickus: A Summary of New Observations of the Lower Crust and Upper Mantle Structure beneath the Gulf Coastal Plain from Passive and Active Source Seismic Data

3:40 Luan Nguyen and Paul Mann: Mesozoic Stretching Amounts of the Continental Margins of the Gulf of Mexico Basin Derived from 3D Gravity Inversion and Depth to Basement Mapping

CONVENTIONAL CLASTICS AND CARBONATES(Henry Garrett C)

Session Chairs: Bill Ambrose and Mike Bergsma

1:25 OPENING REMARKS

1:30 Douglas W. Haywick, David C. Kopaska-Merkel, and Richard Keyes: Petrographic and Faunal Characterization of Monteagle and Hartselle-Equivalent Strata in Northeastern Alabama

1:55 Xiaodong Zhang and Michael C. Pope: Surface to Subsurface Stratigraphy of the Upper Cretaceous Buda Formation in West Texas

2:20 Khaled S. Amrouni, Michael C. Pope, Ahmed S. El-Hawat, Adel A. Obeidi, Aimen Amer, Essa A. Elbileikia, Hassan S. El-Bargathi, Mohamed SH. Abdalla El-Jahmi, Khalid A. M. Mustafa, and Ahmed M. A. Al-Alwani: Distribution of Fault Controlled, Wave-Tide Dominated, Prograding Oolitic Shoals of the Miocene Carbonate-Evaporite Successions of the Ar-Rajmah Group, Al-Jabal Al-Khdar Uplift and Soluq Trough, Cyrenaica, NE Libya

2:45 BREAK

3:15 Will Johnston: 3D Seismic Interpretation of Polygonal Faulting in Upper Cretaceous Sediments, Powder River Basin, Wyoming

3:40 Jean Pierre Malbrough and Abu Kabir Mostafa Sarwar: Lower Tertiary Wilcox Play with Prospective Wells, Keathley Canyon, Gulf of Mexico

4:05 Khaled S. Amrouni, Michael C. Pope, Ahmed S. El-Hawat, Adel A. Obeidi, Aimen Amer, Hassan S. El-Bargathi, Mohamed SH. Abdalla El-Jahmi, Ahmed M. A. Al-Alwani, Essa A. Elbileikia, and Khalid A. M. Mustafa: Paleoshoreline and Prograding Clinoforms of Oolitic Grainstones of the Miocene Carbonate-Evaporitic Sequences of the Ar-Rajmah Group, Al-Jabal Al-Khdar Uplift and Soluq Trough, Cyrenaica, NE Libya

Mary J. Broussard

Tuesday PM Oral Sessions, Continued

URANIUM RESOURCES

(Henry Garrett D)

Session Chairs: Mike Maxson and Peter Luthiger

- 1:25 OPENING REMARKS**
1:30 Brent A. Elliott, Mark J. Mihalasky, and Susan M. Hall: An Assessment of Undiscovered Uranium Resources in the Texas Gulf Coast: Part 1—Geologic Context
1:55 Mark J. Mihalasky, Brent A. Elliott, and Susan M. Hall: An Assessment of Undiscovered Uranium Resources in the Texas Gulf Coast: Part 2—Assessment Approach and Results
2:20 Lewis Haynes and Lee Clapp: Assessment of Downhole Membrane-Diffused Hydrogen for Stimulating Uranium Reduction and Immobilization

CHANGING COASTAL LANDSCAPE

(Room 225C)

Session Chairs: Mark Besonen and Brent Hedquist

- 1:25 OPENING REMARKS**
1:30 Aubrey Hepler and Sh [Withdrawn] ing the Internal Movements of Galveston Island and Bol Ground Penetrating Radar
1:55 Kelly Haggart: Legal Aspects of Coastal Change: Geology is about 'What's a Fact?' while Law is about 'Which Facts Matter?'
2:20 Douglas Carlson: Global Climate Change Depends on More than Combustion of Fossil Fuels

PROTECTING AND STEWARDING WATER RESOURCES

(Room 225D/E)

Session Chair: Dorina Murgulet

- 1:25 OPENING REMARKS**
1:30 Brian B. Hunt, Alex S. Broun, Douglas A. Wierman, David A. Johns, and Brian A. Smith: Surface and Groundwater Interaction along Onion Creek, Central Texas
1:55 Valeriu Murgulet, Dorina Murgulet, Audrey Douglas, and Nicholas Spalt: Impact of Freshwater Environmental Flow Releases on River-Groundwater Exchange and Water Quality in a Semiarid Area: Nueces River, Texas
2:20 Audrey Douglas, Dorina Murgulet, and Nicholas Spalt: Effects of Naturally Occurring Radium Activity and Activity Ratio Heterogeneity on Derived Water Mass Ages and SGD: Lessons Learned from Nueces Bay, Texas
2:45 BREAK
3:15 Chu-Lin Cheng: A Preliminary Groundwater Conceptual Model for South Texas Sand Sheet
3:40 Melinda Faulkner, Kevin Stafford, and Matthew McBroom: The Hydromorphic Evolution of the Owl Mountain and Nolan Creek Provinces, Fort Hood Military Installation, Bell and Coryell Counties, Texas
4:05 Nima Ghahremani and Lee Clapp: Assessment of Brackish Groundwater Desalination Concentrate as Potential Source Water for Hydraulic Fracturing Operations in the Eagle Ford Shale



BANKING
INVESTMENTS
INSURANCE

**Poster Sessions will be All Day Monday (8:30 AM),
Monday (1:30 PM) and Tuesday Morning (8:30 AM)
in the Exhibit Hall. SEPTEMBER 19–20**

POSTER SESSION 1: Monday, 8:30 AM – 11:30 AM (Exhibit Hall, Watergarden A/B)

Session Chair: Allen Lassiter

ADVANCES IN GEOPHYSICS

- P1** **Kyle Altimore and Kevin W. Stafford:** Delineation of Surficial Karst Manifestations using Photogrammetry (Lidar) in Ordovician Carbonates of Colorado Bend State Park, Central Texas
- P2** **Adam Majzoub and Kevin W Stafford:** Characterization and Delineation of Karst Geohazards along RM652 Using Electrical Resistivity Tomography, Culberson County, Texas
- P3** **Julie Willmore, Brad Torry, Henrik Roende, Chris Egger, and Adriana Thames:** Consideration to Data Driven Solutions for the Acquisition of New Marine 3D Seismic Data

CHANGING COASTAL LANDSCAPE

- P4** **John R. Andrews, Jeffrey G. Paine, Caudle L. Tiffany, and Kutalmis Saylam:** Topographic and Bathymetric Lidar Applications in Coastal Research at the Bureau of Economic Geology
- P5** **Robert M. Ivy and Gary L. Kinsland:** Regional Subsurface Investigation of the Uppermost Cretaceous of Northern Louisiana
- P6** **Lisa A. McLaughlin, Jonathan Sulaica, and Michael Parker:** Quantifying Material Removed as a Result of 2002 Flood at Canyon Lake: A GIS Analysis

GEO EDUCATION

- P7** **Anita Chavez and Juan L. González:** Constraining the Thickness and Volume of the South Texas Sand Sheet
- P8** **Sarah M. Dillon, Adolfo Enciso, and Mark T. Ford:** pXRF analysis of Heterogeneous Rocks with Respect to Sample Preparation: Applications to Mafic Igneous Rocks
- P9** **Preston W. McLaughlin:** Analysis, Prediction, and Impacts of Shoreline Change Rates along the Eastern Aransas National Wildlife Refuge, Texas

GULF OF MEXICO SYSTEMS

- P10** **Shelby L. Davis, Shweta Mohandas, Ghervy G. Nzoumba, and Thomas E. Yancey:** Diatomite in Upper Eocene Jackson Group, Fayette County, Texas
- P11** **Erik S. Heider and David T. King, Jr.:** Early Modification Stage Dynamics of Shallow Crater-Filling Units, Wetumpka Impact Structure, Alabama
- P12** **Celeste D. Lohr, Paul C. Hackley, Brett J. Valentine, and Catherine B. Enomoto:** Thermal Gradient Trends in the Tuscaloosa Marine Shale Play Area: Preliminary Results from Studies to Support Oil and Natural Gas Resource Assessments
- P13** **Sridharan Vallabhaneni, Thomas D. Olszewski, Michael C. Pope, and Zoya Heidari:** Facies and Stratigraphic Interpretation of the Eaglebine Play in Central Texas

MEXICO, LATIN AMERICA, CARIBBEAN

- P14** **Jason D. Fisher and David T. King, Jr.:** Lower Tertiary Submarine Fan Deposits in Southern Belize
- P15** **David Lankford-Bravo and Paul Mann:** Improved Mapping of the Subsalt, Continent-Ocean Boundary in the U.S. Gulf of Mexico and Implications for the Structural Relief for Overlying Folds of the Passive Margin Fold-Thrust Belt

Monday AM Poster Session, Continued

OTHER GULF COAST STUDIES

- P16** **Frank G. Cornish:** Hydrocarbon Traps Associated with Upper Wilcox Canyons and Seismic Response, Mid Gulf Coast, Texas
- P17** **S. Mohsen Kariminia, Nancy L. Engelhardt-Moore, and Russell E. Hinote:** Modification of the Acetic Acid Methodology for Improved Microfossil Extraction to Meet Requirements of the Oil and Gas Industry

PROTECTING AND STEWARDING WATER RESOURCES

- P18** **Melinda S. Faulkner, Kevin W. Stafford, and Matthew W. McBroom:** The Hydromorphic Evolution of the Owl Mountain and Nolan Creek Provinces within the Fort Hood Military Installation, Bell and Coryell Counties, Texas

RESERVOIR QUALITY AND PREDICTION

- P19** **Khaled S. Amrouni, Ahmed S. El-Hawat, Michael C. Pope, Aimen Amer, Adel A. Obeidi, Hassan S. El-Bargathi, Ahmed M. A. Al-Alwani, Mohamed SH. Abdalla El-Jahmi, Khalid A. M. Mustafa, and Essa A. Elbileikia:** Paleogeographic Reconstruction of the Upper Miocene Sequences of the Wadi Yunis Member of the Al Khums Formation, Sirt Basin, Central Libya

RESERVOIR PRESSURE PREDICTION

- P20** **Feng Chen and Gary L. Kinsland:** Study of Channel Morphology and Infill Lithology in the Wilcox Group in Central Louisiana Using Seismic Attribute Analysis

URANIUM RESOURCES

- P21** **Nima Ghahremani, Yaneth Gamboa, Lucy Camacho, and Lee Clapp:** Measurement of Rare Earth Element Concentrations in Produced Water from the Eagle Ford Shale

ESTUARINE SEDIMENTATION

- P22** **Melissa Pena, Symphony Ovalles, and Paul Montagna:** Sediment Composition in Texas Bays Related to Inflow Gradients



POSTER SESSION 2: Monday, 1:30 PM – 6:00 PM

(Exhibit Hall, Watergarden A/B)

Session Chair: Allen Lassiter

ADVANCES IN GEOPHYSICS

- P1 Aaron A. Eaves and Kevin W. Stafford:** Delineation of Karst Geohazards along Highway 652 through the Use of Ground Penetrating Radar, Culberson County, Texas
- P2 Yi-An Lin and Guoquan Wang:** Ground Motions along the Long-Point Fault Derived from Continuous GPS Observations (2013–2015)
- P3 Francis C. Okocha and Wesley A. Brown:** Gravitational Study of the Hastings Salt Dome and Associated Faults in Brazoria and Galveston Counties, Texas

CHANGING COASTAL LANDSCAPE

- P4 Juhi Aggarwal:** Application of Geophysical Techniques to Study the Texas Coast: Internal Architecture of Beach-Dune Morphology along the Lower Texas Barrier Islands
- P5 Jacob Byerly, Brent C. Hedquist, and Haibin Su:** Utilizing Satellite Imagery to Analyze the **Withdrawn** Surface Temperature and Recent Land Use/Cover Change in San Antonio, Texas
- P6 Douglas Carlson:** Subsidence Rate in New Orleans, Louisiana, Dependence on Location and Time

CONVENTIONAL CARBONATES & CLASTICS

- P7 John Cooper, Jeffrey Hardwick, and Alexis Godet:** Integrated Stratigraphy of the Austin Chalk Group across the San Marcos Arch, Bexar County, Texas
- P8 Gary L. Kinsland and John W. Snedden:** Comparison of a Portion of the K/Pg Boundary Deposits in Two Locations: Webb County, Texas and LaSalle Parish, Louisiana

GULF OF MEXICO FIELD/CASE STUDIES

- P9 Kody Kramer, Thomas W. Bjerstedt, and William W. Shedd:** 3D Visualization and Characterization of a Mississippi River-Scale Deepwater Channel-Levee System on the Basin Plain, Gulf of Mexico

GEO EDUCATION

- P10 Pawan Kakarla and Wesley A. Brown:** Geotechnical Properties of the Rodessa Formation in East Texas: A Compressive and Tensile Strength Analysis Using Artificial Neural Network Methodology
- P11 Subbarao Yeliseti, Thomas L. McGehee, and Lionel Hewett:** Overview of Proposed Geophysics/Petrophysics Programs at Texas A&M University–Kingsville

GULF OF MEXICO SYSTEMS

- P12 David Lankford-Bravo, Muhammad Nawaz Bugti, Sharon L. Cornelius, and Paul Mann:** Documentation of Isolated Lenses of High-Velocity, Eocene to Miocene Limestone within Clastic Rocks above and below Allochthonous Salt Bodies, North-Central Gulf of Mexico
- P13 Zachary Wilson and Seiichi Nagihara:** Characterization of Geothermal Anomalies in the Louisiana Continental Shelf, Gulf of Mexico, Using Corrected Bottom-Hole Temperatures

Monday PM Poster Session, Continued

MEXICO, LATIN AMERICA, CARIBBEAN

- P14 Jonathan Sulaica, Juan Carlos Laya, Michael C. Pope, and Niall Slowey:** Facies Distribution and Paleogeographic Evolution of Pleistocene Carbonates in Bonaire, Netherlands Antilles

OTHER GULF COAST STUDIES

- P15 Billy Hales, Ruben Cano, and Thomas L. McGehee:** Bridging Students' Knowledge Gaps through Research: A Case Using Synthetic Hydrogeologic Models
- P16 Allen Lowrie:** Regional Bathymetric Maps of the Iranian Makran Margin, a Subduction Zone, and the Northern Gulf of Mexico, a Passive Margin, are Similar from Differing Origins

PROTECTING AND STEWARDING WATER RESOURCES

- P17 Sergio Mireles, Yongsik Ok, Chu-Lin Cheng, and Jihoon Kang:** Removal of Zinc from Stormwater Runoff using Charcoal Based Adsorbents

RESERVOIR QUALITY AND PREDICTION

- P18 Liang Xiao and Xiu-Hong Xie:** A New Method of Evaluating Tight Gas Sands Pore Structure from Nuclear Magnetic Resonance (NMR) Logs

RESERVOIR PRESSURE PREDICTION

- P19 Kenneth L. Stover and Wesley A. Brown:** Seismic Interpretation and Analysis of the Etouffee Reservoir Sand and the Surrounding Area in Terrebonne Parish, Southeast Louisiana

SALT TECTONICS

- P20 Matthew R. Worrell and Wesley A. Brown:** Structural, Stratigraphic, and Geomorphologic Reconstruction of an Early Stage Pliocene Raft in Viosca Knoll–Mississippi Canyon, Gulf of Mexico, Using 3D Seismic Data

EAGLE FORD—UNDERSTANDING THE UNCONVENTIONALS

- P21 Peng Li, Michael E. Ratchford, Marc W. Charette, Bradley J. Walls, and Richard P. Philp:** Unconventional Reservoir Characterization of the Brown Dense Mudstone (Lower Smackover Formation), Gulf Coastal Plain, South Arkansas



POSTER SESSION 3: Tuesday, 8:30 AM – 1:30 PM

(Exhibit Hall, Watergarden A/B)

Session Chair: Allen Lassiter

ADVANCES IN GEOPHYSICS

- P1** **Louis Berent and Roice Nelson:** Lightning Sparks Interest in the Unconventional Mapping of Active Subsurface Faults
- P2** **Leah J. Hogarth, Conrad Kolb, and Joël Le Calvez:** Using Crosswell Measurements to Enhance Velocity Model Calibration for Real-Time Microseismic Monitoring

CONVENTIONAL CARBONATES & CLASTICS

- P3** **Khaled S. Amrouni, Michael C. Pope, Ahmed S. El-Hawat, Aimen Amer, Essa A. Elbileikia, Hassan S. El-Bargathi, Adel A. Obeidi, Osama Rahil Shaltami, Khalid A. M. Mustafa, Ahmed M. A. Al-Alwani, Mohamed SH. Abdalla El-Jahmi, Salah S. Abdelsalam El-Ekhfifi, and Matthew P. Wehner:** Silicification in the Cyrenaican Miocene Carbonate-Evaporite Sequence, NE Libya: Origin, Occurrence, Facies, and Sea Level Relationship
- P4** **Randy Bissell:** Evolving Models for Eocene Deepwater Channel Complexes and Fan Systems, Scotland District, Barbados
- P5** **Xiaodong Zhang and Michael Pope:** Surface to Subsurface Stratigraphy of the Upper Cretaceous Buda Formation in West Texas

GEO EDUCATION

- P6** **Monica M. Estrada, Scott S. Fenner, and Mark T. Ford:** Using pXRF to Assess Heterogeneous Sample Preparation Methods: Applications to Coarse-Grained Felsic Rocks
- P7** **Martial J. Morrison, Juan M. Lorenzo, Peter D. Clift, and Kory M. Konsoer:** Analysis of a Discontinuity Surface within Point Bar Deposits of False River, Louisiana

GULF OF MEXICO SYSTEMS

- P8** **Thomas W. Bjerstedt, Kody Kramer, and William W. Shedd:** Latest Pleistocene 'Blue Unit' of the Mississippi Fan System, Gulf of Mexico
- P9** **Jay K. Mishra and Yogesh Agnihotri:** New Insights into Basement Tectonics and its Control on Salt and Sediment Structural Styles in Northern Gulf of Mexico

MEXICO, LATIN AMERICA, CARIBBEAN

- P10** **Sergio Perez Rodriguez:** GIS and Statistics Applied to the Analysis of the Distribution of Hydrocarbon Reserves by Fields and Formations in the Sureste Basin, Mexico

OTHER GULF COAST STUDIES

- P11** **Randolph G. De La Garza and Juan L. Gonzalez:** A Rancholabrean Community of Giant Gopher Tortoises (*Gopherus hexagontus*) within Willacy County, Texas
- P12** **Allen Lowrie:** Contemporaneous and Mesozoic Low Gradient Shelf Deposition across Wide Continental Shelves

PROTECTING AND STEWARDING WATER RESOURCES

- P13** **Ingrid Eckhoff:** Structural Controls on Fluid Migration in Cretaceous Strata, Central Texas

Tuesday AM Poster Session, Continued

- P14 Rohan Jayasuriya, Lucy Camacho, and Lee Clapp:** Seasonal Monitoring of Water Quality and Wastewater Effluent Discharges along the Lower Rio Grande, Texas

RESERVOIR QUALITY AND PREDICTION

- P15 Lisa A. McLaughlin and Juan Carlos Laya:** Characterization of Porosity Systems Based on Diagenetic Models and its Effect on Petrophysical Analysis in Permian Carbonates

RESERVOIR PRESSURE PREDICTION

- P16 Qilong Fu, William Ambrose, and Jim Barton:** Lithofacies, Diagenesis, and Pore Network of the Pennsylvanian Caddo Limestone in Stephens County, Texas
- P17 Robert G. Loucks and Qilong Fu:** Origin and Characterization of the Lithofacies and Dual Micropore/Macropore Network in Pennsylvanian (Desmoinesian) Caddo Shelf-Buildup Complexes, Stephens County, North-Central Texas

SALT TECTONICS

- P18 Pin Lin and Paul Mann:** Kinematics of Jurassic Rifting and Oceanic Spreading between the Continental Blocks of Western Florida and the Yucatan Peninsula

EAGLE FORD—UNDERSTANDING THE UNCONVENTIONALS

- P19 Justin Mauck and Gregory Frébourg:** Rafted Wood in the Bouldin Member of the Eagle Ford Formation, Walnut Creek, Travis County, Texas
- P20 Timothy Shane:** Geochemical Analysis of Parasequences within the Productive Middle Member of the Eagle Ford Formation at Lozier Canyon near Del Rio, Texas
- P21 J. Jonathan Tuck, Burabari Kponi, Thomas L. McGehee, and Mark T. Ford:** Optimization of pXRF Sampling Methods in Analyzing Hydrocarbon-Rich Zones in the Eagle Ford Shale

URANIUM RESOURCES

- P22 Nebechi Osia, Dorina Murgulet, and Lee Clapp:** Microcosm Study to Evaluate Alternative Reduced Sulfur Compounds for Stimulating In-Situ Microbial Reduction and Immobilization of Uranium



Leon E. Comeaux & Associates

Short courses will be held at the EOG Training Facility (transportation on your own). Please check at Registration (Watergarden A, Level 2 of the American Bank Center) for last-minute spots in the Sunday short course.

Short Course — Depositional Environments of Ancient Clastic Systems from Well Logs*

Saturday, September 17

12:30 pm–4:30 pm

Instructor: Tom Fett, PE

Location: EOG Training Facility, 539 N. Carancahua St., Corpus Christi, TX

Fee: \$100 per person, \$60 for students (cost includes all course materials)

Maximum: 50 persons, 10 students

*This Short Course and the Geomorphology of Nueces River Valley Field Trip compares ancient and modern clastic systems.

Short Course — Basic Seismic Attributes

Sunday, September 18

8:00 am–4:00 pm

Instructor: Dr. Robert Schneider

Location: EOG Training Facility, 539 N. Carancahua St., Corpus Christi, TX

Fee: \$150 per person, \$110 for students (cost includes refreshments, lunch, and all course materials)

Maximum: 40 persons, 8 students

*All field trips depart from and return to Omni Hotel.
Check at Registration for last-minute availability.*

Field Trip — Ice Age Mammal Fossil Hunt (Sponsored by Kemco)

Saturday, September 17

Leaders: Jon Baskin (TAMU–Kingsville) and Ronnie Thomas (Retired)

Departure: 8:30 am

Return: 2:00 pm

Fee: \$125 per person (cost includes transportation and refreshments)

Maximum: 32 participants

Field Trip — Geomorphology and Geologic History of the Nueces River Valley, Corpus Christi Bay, Laguna Madre, and Padre Island*

Sunday, September 18

Leaders: Randy Bissell (Headington Energy Partners/TAMU–CC), Dr. Mark Besonen (TAMU–CC), and Tom Fett, PE

Departure: 8:00 am

Return: 4:30 pm

Fee: \$125 per person; \$85 for students (cost includes transportation, lunch, and materials).

Maximum: 30 participants; 8 student slots available

*This Field Trip and the Depositional Environments Short Course compares ancient and modern clastic systems.

STUDENT PARTICIPATION

We offer a special registration fee (only \$35) to facilitate student participation. This fee is applicable for students or new grads who have not yet accepted employment offers. Students may also register as a Student Volunteer. If selected, you will receive a refund of your registration fee after you have worked a half day, as assigned. This fee allows entry to the Opening Session, Icebreaker, Exhibition, all technical sessions, reduced rates for short courses and select field trips, all coffee breaks, the Monday Happy Hour in the exhibit hall, and a digital copy of the 2016 GCAGS Transactions.

STUDENT VOLUNTEERS

Half-day volunteers are needed beginning 7:00 am, Saturday, September 17, through Tuesday, September 20th. Volunteers will earn full-paid student registration. Assignment preferences will be weighed on volunteer date, and registration fees will be refunded on site upon completion of a half day's work. Possible responsibilities include serving as short course assistants, checking in field trip/short course participants, technical session 'runners,' ticket-taking, manning registration, preparing convention packets, and staffing judges' room. For more information, contact Casey Mibb, Volunteers Chair, at clmibb@yahoo.com.

Volunteers Needed during these Times and Dates

Saturday, September 17	7:00 am–6:00 pm
Sunday, September 18	7:00 am–7:00 pm
Monday, September 19	7:00 am–5:00 pm
Tuesday, September 20	7:00 am–4:00 pm

TEACHER ACTIVITY

GCAGS and the Corpus Christi Geological Society recognize the value of helping primary and secondary teachers effectively convey earth science information to their students. We are pleased to present the following course for teachers at minimal cost for participants.

Make Your Class Exciting through Earth Science (Grade 6–12 Teachers Only)

Instructor: J. R. Jones

Date & Time: Saturday, September 17, 8:30 am to 4:30 pm

Location: EOG Training Facility • 539 N. Carancahua, Corpus Christi, TX

Cost: \$50 per person (cost includes refreshments, lunch, field trip transportation, and all course materials)

Maximum: 30 persons (open to teachers only)

This earth science workshop targets grade 6 thru 12 TEKs but is also appropriate for elementary level teachers and will reinforce core earth science knowledge for all levels. Participants will earn 6 CPE's. This workshop will include a morning classroom session then a field trip in the afternoon. Be prepared to have some fun. Sturdy, waterproof footwear is recommended.

The classroom session will cover the basics from plate tectonics to ground water, from sediments to rocks, and back to sediments. Discover the history of oil and gas production from whales to the Eagle Ford. Learn the background economics that drives the value of our resources. The field trip topics will include 1) How bays are formed, 2) Erosion and deposition, 3) Man's effect on the environment, 4) Wetlands value and importance to ocean health, 5) Changing salinities, 6) Relative sea level rise, 7) Subsidence, and 8) Restoration and enhancement.

The Guest/Spouse fee includes the Opening Session, Icebreaker, Exhibition, all coffee breaks, Monday Exhibits/Poster Happy Hour, and Hospitality Room on Sunday, Monday, and Tuesday. Please check at Registration for last-minute availability of guest tours.

HOSPITALITY

Welcome to Corpus Christi and the 2016 GCAGS Convention! All guests and spouses are invited to take part in the events that are included in your registration fee. In addition, two activities are available at extra cost that will give you the opportunity to learn more about the culture and local Corpus Christi area. The Guest Fee includes the Opening Session, Icebreaker, Exhibition Hall, all coffee breaks, and Happy Hour on Monday. **Please note that professionals may not register as guests.**

Join us in the Hospitality Suite at the Omni Hotel, Presidential Suite, from Sunday, September 18, through Tuesday, September 20. Morning and afternoon refreshments will be available daily. Our hostesses will be on hand to answer any questions about local restaurants and shopping.

HOSPITALITY SUITE HOURS

Presidential Suite, Room 1754, Omni Hotel

Sunday, September 18	2:00 pm–4:00 pm
Monday, September 19	8:00 am–10:00 am and 4:00 pm–6:00 pm
Tuesday, September 20.....	8:00 am–10:00 am and 2:00 pm–5:00 pm

GCAGS HOSPITALITY ENRICHMENT PROGRAMS

Guest Activity: **Fulton Mansion Tour, Lunch and Shopping in Rockport-Fulton, Texas**

Leader: Darlene Murry

Date & Time: Monday, September 19, 9:30 am–3:30 pm

Depart/Return to Omni Hotel

Fee: \$60 per person includes bus and tour entry. You cover lunch.

Maximum 14 participants, Minimum 9 participants

We will take a short bus drive up the coast to Rockport-Fulton for a private tour of the Fulton Mansion. Rising above the Aransas Bay and surrounded by stately live oaks, the Fulton Mansion must have appeared incredible in 1877, as it does today, with its mansard roof and ornate trim. Interior gas lighting, flush-toilets, and other refinements were progressive and luxurious elements for this part of Texas. On a private tour just for GCAGS guests, you will get a glimpse into the life of an affluent family in the late 1800s. You will journey through the restored home, learn about George Fulton's engineering skills, and take a walk through Harriet Fulton's gardens. After the tour, we will have lunch and spend time shopping the Art Galleries, Boutiques, and Antique Shops of delightful downtown Rockport. Rockport-Fulton is the 5th Best Small Coastal Town in America; 6th Top Destination in Texas; 7th Coolest Small Town in America; and one of the 100 Best Small Art Towns in America.

Guest Activity: **SEGWAY Tour of the Corpus Christi Bayfront**

Leader: Darlene Murry

Date & Time: Tuesday, September 20, 9:30 am–1:45 pm

Depart/Return to Omni Hotel

Fee: \$55 per person paid to SegCity Tours. You cover lunch.

Maximum: 9 participants

There's so much more to see than the sea in Corpus Christi. Do you know just how far Jupiter is from the Sun? What did Columbus' ship look like? Have you seen our historic district? Easy, fun, and utterly entertaining you'll be talking about SegCity's Award Winning city tour for years to come.

"I can't ride a Segway!" If you can stand up unaided you can most likely ride a Segway. Remember that you don't have to balance a Segway, it balances you backwards and forward so you're in excellent hands. A Segway is reading your balance about 100 times every second and is working hard to keep you safe all the time. The SegCity Tour Guides are fully equipped to give you the best training experience to help you feel confident to operate a Segway before you go on a tour.

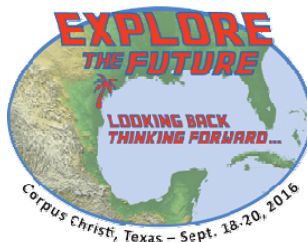
GCAGS 2016

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Golf	Fermin Munoz



**American Bank Center
(Convention Headquarters)
American Bank Center (ABC) Convention Center, 1901
Shoreline Blvd., Corpus Christi, Texas**

Parking Map



Surface Parking passes are available at the American Bank Center:

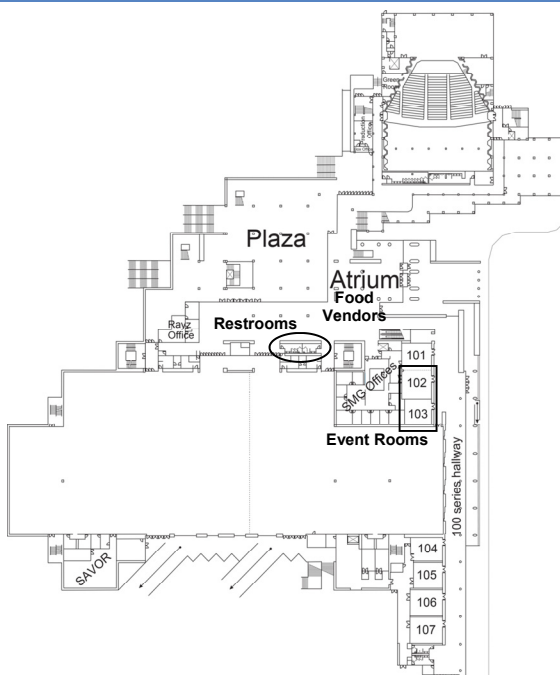
\$13 for a 4-day pass

\$10 for a 3-day pass

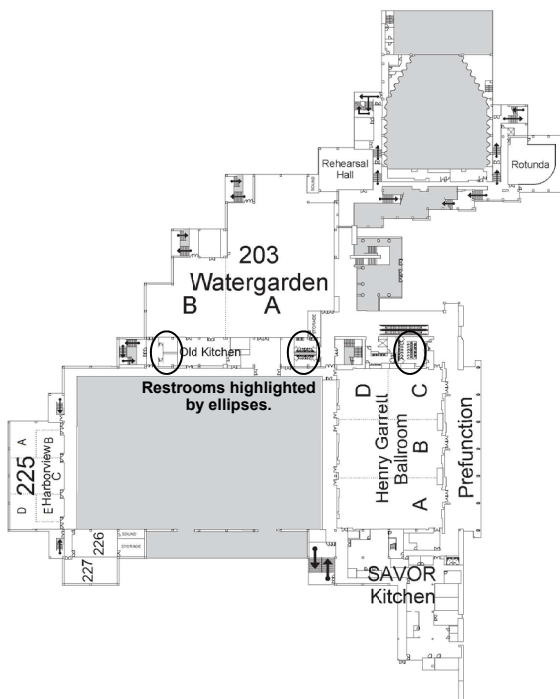
\$5 per day without a pass



**American Bank Center
– Level 1 Map –
Lower level events to
be held in Rms.
102–103
(see boxed area)**

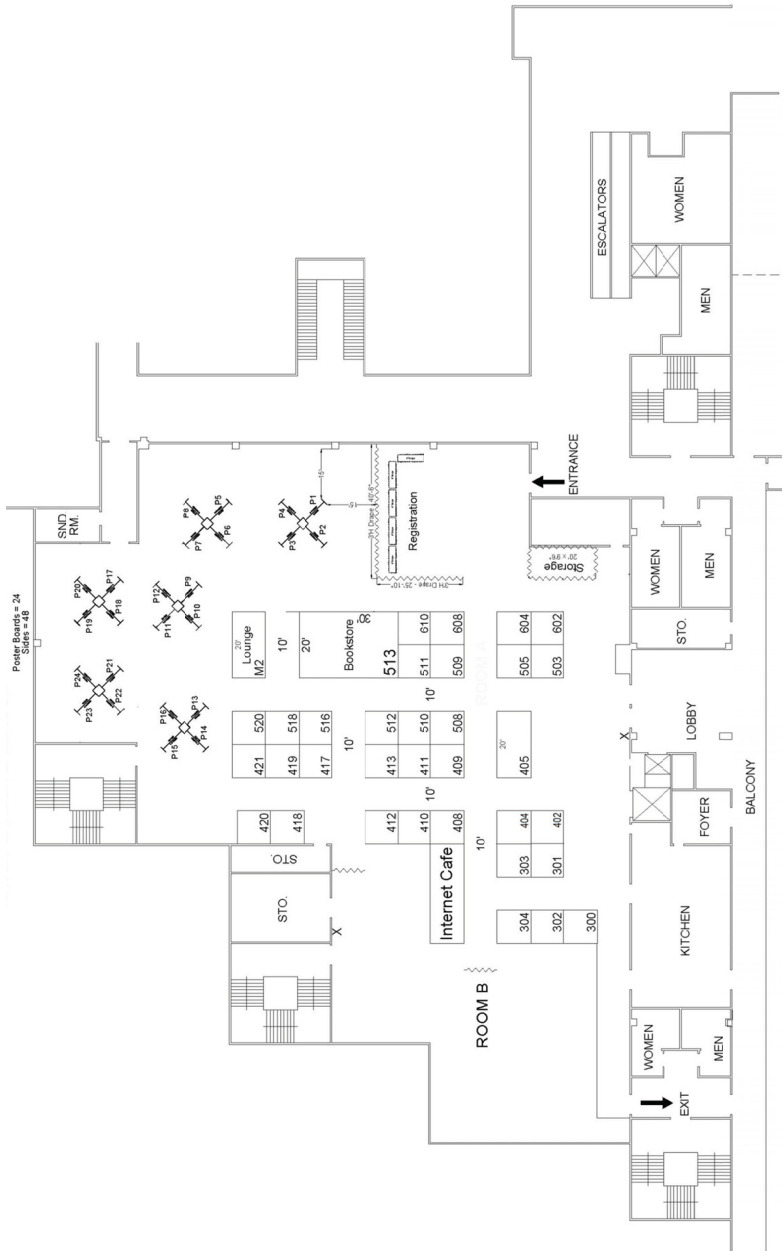


**American Bank Center
– Level 2 Map –
Exhibit Hall in
Watergarden A/B**



American Bank Center
Exhibit Hall Floor Plan
(Watergarden A/B)

Exhibit Hall Map



Exhibitor	Booth	Product/Service Description
South Texas Geological Society gla@aeatx.com http://www.gcags2017.com	518	Host society of the 2017 GCAGS Annual Convention , Wednesday, Nov. 1–Friday, Nov. 3 (NOTE NEW PATTERN), San Antonio Marriott Rivercenter Hotel.
AAPG http://www.aapg.org vbeighle@AAPG.org	304	Providing publications, conferences, and education.
Advanced Geosciences, Inc. http://www.agiusa.com Delma@aguisa.com <i>Real time color pseudo-section presentation.</i>	508	AGI is the manufacturer of the SuperSting geo-electrical tomography system. Remote control and real time data quality analysis is achieved using an Android device. Some applications of the SuperSting system are deep mineral exploration, subsurface pollution mapping, shallow and deep marine hydrocarbon exploration, agriculture, geotechnical, and geology.
Bureau of Economic Geology http://www.beg.utexas.edu dallas.dunlap@beg.utexas.edu	305	Bureau researchers spearhead basic and applied research projects around the world; among them, research in energy resources and economics, coastal and environmental studies, land resources and use, geologic and mineral mapping, hydrogeology, geochemistry, and subsurface nanotechnology.
Corpus Christi Geological Society http://www.ccgeo.org	303	Host of this year's GCAGS/GCSSEPM convention. Promoting CCGS proprietary publications including books, posters, and DVDs. Displaying Ice Age Mammal Fossils and promoting their latest project: "From a Flicker to a Flame"
EDGE Systems http://www.pmles.com jparsons@pmles.com <i>Mudlogging, Quality personnel, Rental Gas Systems.</i>	509, 511	PML provides, Mud logging, Geosteering, Remote logging & Gas detection services to energy companies. Additionally, our subsidiary, EDGE Systems provides rental gas analyzers to other service providers. Our lead loggers have at least 5 years experience and/or a degree in geology. Our systems are web enabled to provide logs, calibration, etc.
GCAGS Bookstore http://www.gcags.org pubsales@beg.utexas.edu	513	GCAGS Bookstore sells the publications of the Gulf Coast Association of Geological Societies, both the GCAGS <i>Transactions</i> volumes (new: Volume 66, 2016) and the GCAGS <i>Journal</i> (new: Volume 5, 2016). Also displayed and available for purchase are selected publications of GCAGS's member Geological Societies (AGS, CCGS, HGS, MGS, NOGS, and STGS) and GCSSEPM. Information about future GCAGS conventions will also be available at the Bookstore booth.

Gems & Crystals Unlimited www.gemsandcrystalsunlimited.com Jeweler@mindspring.com <i>Customized gold and platinum jewelry.</i>	405	Complete custom work, including engagement, anniversary, and any special celebrations for you! Outstanding collection of gemstones, diamonds, rubies, sapphires, emeralds, tanzanite, etc. Great collection of Art Deco and other antique jewelry in gold, platinum, and silver, cameos, cufflinks, pins, collectibles, crystals, and minerals.
GeoCare Benefits Insurance http://www.geocarebenefits.com mrodriguez@agia.com <i>All your insurance needs!</i>	202	AAPG encourages members to participate in our GeoCare Group Insurance. Plans include Medical (through AAPG's GeoCare Members' Private Medical Insurance Exchange), Term Life, Cancer Expense, Dental, Disability, Medicare Supplement, and other supplemental plans. The Program sponsors Auto, Homeowner and other Personal Lines of coverage.
GeoFrontiers http://www.geofrontiers.com gcags@geofrontiers.com	505	GeoFrontiers acquires trace gas and liquid hydrocarbon data for geochemical exploration. We solve difficult problems in severe environments, interpret, and integrate with seismic data to enhance any exploration project. Recent capability additions include soil gas probe, carbon dioxide, and helium exploration.
Geomap Company http://www.geomap.com sjacobs@geomap.com 972-578-0571	520	Gravity Map Service provides oil and gas and mining exploration companies with high resolution gravity data and processing. In addition to the GMS gravity data library, GMS also brokers gravity and magnetic data for various other geophysical data companies. Providing a better understanding of subsurface structure through the integration of gravity data into exploration programs will assist in defining the areas where more expensive geophysical methods will be used.
Geophysical Insights http://www.geoinsights.com Laura@advertasmarketing.com <i>Paradise™ – Multi-Attribute Analysis Platform.</i>	409, 411	Geophysical Insights provides the Paradise™ multi-attribute analysis platform that uses advanced pattern recognition to extract more information and increase definition and from the seismic response. Visit Paradise to see how exploration risk and field development cost are being dramatically reduced.

<p>Gravity Map Service http://www.gravityservices.com Bob Neese (281) 342–2884 b.neese@gravityservices.com</p>	<p>516</p>	<p>Gravity Map Service provides oil and gas and mining exploration companies with high resolution gravity data and processing. In addition to the GMS gravity data library, GMS also brokers gravity and magnetic data for various other geophysical data companies. Providing a better understanding of subsurface structure through the integration of gravity data into exploration programs will assist in defining the areas where more expensive geophysical methods will be used.</p>
<p>Gulf Coast Section SEPM http://www.gcssepm.org fossil53@gmail.com</p>	<p>300</p>	<p>GCSSEPM, the Gulf Coast Section of SEPM, is the largest section of SEPM (Society for Sedimentary Geology). It was established for the purpose of “promoting the science of stratigraphy in the Gulf Coast states through research in paleontology and sedimentary petrology, especially as it relates to petroleum geology.” The most important activities that occur throughout the year are cosponsoring the GCAGS annual convention and its’ published <i>Transactions</i>, and producing the annual Perkins-Rosen GCSSEPM Research Conferences and Proceedings volumes. The Section also offers free short courses to graduate and undergraduate students, and participates in public outreach to the non-petroleum community (Earth Science Week activities at the Museum of Natural Science).</p>
<p>Horizon Well Logging / Excellence Logging http://www.hzmud.com Dkellar@exlog.com <i>Mud Logging, GeoSteering, Geochemical Services.</i></p>	<p>604</p>	<p>Horizon Well Logging is the premier mud logging and geosteering firm supporting natural gas and oil exploration companies from the Mid-continent, S. Texas, Rockies, Appalachia region, and beyond since 1988 utilizing cutting edge technology.</p>
<p>Houston Geological Society www.hgs.com</p>	<p>510</p>	<p>Please visit our website at www.hgs.com.</p>
<p>IHS http://www.IHS.com jeff.warhol@IHS.com</p>	<p>512</p>	<p>IHS Markit announces a merger of global information leaders. Together, IHS and Markit harness the deepest sources of information, analytics and expertise to forge solutions for industries and markets that drive economies worldwide. We partner with leaders in business, finance and government to help customers be more efficient and make more informed decisions to secure their future. By seeing the big picture and all the connections, we provide insights and perspective on what really matters.</p>

Neuralog http://www.neuralog.com QTRAN@neuralog.com <i>Desktop – Well Data, Document & Log Management.</i>	608	Neuralog provides solutions for well, log, and document management, log data capture including mud log lithology, volumetric and reserves calculations, geological analysis, and well log printing and scanning. Desktop is a powerful ESRI-based interface for organizing your company's well data, logs, and documents into meaningful global views.
Petrosys USA http://www.petrosys.com.au jessica.dunlap@petrosys-usa.com Volker Hirsinger 713-580-2950 volker.hirsinger@petrosys-usa.com <i>Subsurface Mapping & Modeling, Data Management.</i>	410	Petrosys is the industry leader in mapping, surface modeling & data management software solutions delivering direct connectivity with the most popular exploration, production & GIS data sources. Petrosys produces high quality maps & surface models. It manages, edits & analyzes the underlying information, including the specialized seismic, well & geoscience data used in the search for oil & gas.
Rock Metrics Americas jason.crux@rockmetricsam.com	610	Rock Metrics Americas specializes in high resolution images of rocks from SEM samples, thin sections, whole rock cores, to drone images of entire outcrops. Our software stitches, compresses and allows easy manipulation of these images within a viewer. The viewer is capable of overlaying images captured with different light and energy types and includes a full range of measurement and analysis tools.
Thompson Solutions LLC www.thompsonsolutions.com gary.thompson@thompsonsolutions.com	516	Thompson Solutions LLC provides integrated geophysical & geological interpretation solutions for the exploration of oil, gas & minerals. Custom solutions are based on integration of client's data with our expertise in the interpretation of gravity, magnetic & geological data. Brokerage of commercial gravity and magnetic data and management of new data acquisition ensures the best data coverage.
Tricon Geophysics www.tricongeophysics.com dave.williams@tricongeophysics.com <i>Seismic Imaging & Reservoir Services</i>	408	Seismic Imaging Time and Depth. Reservoir Services for AVO Inversion, Pre-stack Inversion & Fracture Analysis. Petrophysical Analysis
Horizon Well Logging / Excellence Logging http://www.hzmud.com Dkellar@exlog.com <i>Mud Logging, GeoSteering, Geochemical Services.</i>	604	Horizon Well Logging is the premier mud logging and geosteering firm supporting natural gas and oil exploration companies from the Mid-continent, S. Texas, Rockies, Appalachia region, and beyond since 1988 utilizing cutting edge technology.

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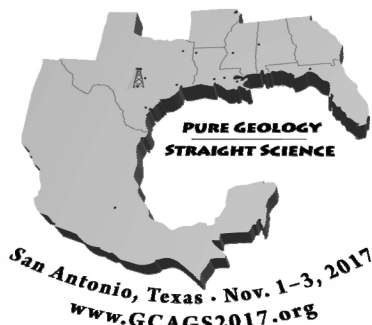


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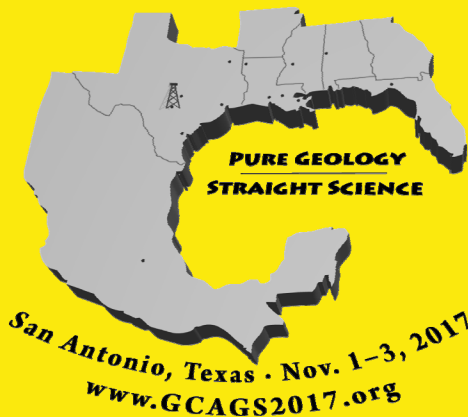


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