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

64th Annual Convention

October 5–7, 2014—Lafayette, Louisiana

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# ANNOUNCEMENT



[www.gcags2014.com](http://www.gcags2014.com)

Hosted by the Lafayette Geological Society

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We thank our generous diamond  
sponsors for supporting the

**2014 Annual GCAGS/GCSSEPM  
Convention and Exhibition**

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**FREEPORT-McMoRAN  
OIL & GAS**

On behalf of the Lafayette Geological Society, I am pleased and honored to invite you to this year's Gulf Coast Association of Geological Societies / Gulf Coast Section of SEPM Annual Convention and Exhibition. Lafayette is truly one of the best places to live and work in the Oil and Gas Industry, and October is a great time of the year to visit for those of you who don't have the privilege of living or working here.

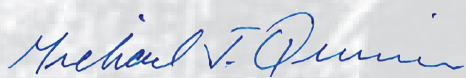
When the convention board began discussion regarding a theme for this year, one of the younger members of the team suggested the television reality show "Survivor." The more we tossed the idea around, the better we realized it fit. We are over 110 years post-Spindletop discovery, and the Gulf of Mexico continues to survive, if not thrive. I may be biased, but in my opinion the best oil finders in the industry work or at least had some training in the "Big Cat Box." Both Exploration and Production practices are at the forefront of current technology, and many of the most widely used tools and practices were developed right here in the Gulf.

Survival requires adaptability. GCAGS and GCSSEPM are seeing that need for adaption. The crew change is underway, and over the next 5–10 years those of us in the outgoing crew need to give the younger G&G professionals the training they need so that they can take the keys. That doesn't mean we can't also learn from them.

So, it was with a mindset of Survival, Adaption, and Crew Change that the board approached planning for the 2014 GCAGS Convention. We are proud to provide you with a program that includes:

- 6 outstanding choices for short courses;
- 3 excellent field trips;
- A Student, YP, and OP mixer designed to bring the generations together for a chance to chat;
- An Icebreaker to be remembered;
- A first-of-its-kind educational forum featuring 4 leading industry experts;
- A Technical Program with a strong emphasis on Deepwater Deposition, Emerging Shelf Trends, and Conventional Plays, but also enough talks on Resource Plays and the Environment to satisfy most discerning attendees;
- A Prospect Alley, for those who want to do some wheeling and dealing while attending the convention;
- A Spouse Program that steeps participants in the charm of South Louisiana, and/or introduces them to some of the tastier treats the area is known for;
- An industry sponsored Night at the Science Museum; and
- One or two other special events aimed at the Younger Professionals.

Please join us as we combine the best of what Lafayette and our industry has to offer – sharing lessons learned, and passing a good time. See you in October!



Michael J. Quinn

General Chair

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All events will be held at the Cajundome Convention Center, 444 Cajundome Blvd., Lafayette, Louisiana, unless otherwise noted. Locations and times subject to change—consult the program book and convention application on your mobile device on site.

## **YOUNG PROFESSIONALS' MEET & GREET (Sponsored by Chevron)**

4:00 pm–5:00 pm • Sunday, Oct. 5

In addition to all young professionals and students, we strongly encourage all interested professionals to attend this function. This is a great opportunity for the new and soon to be professionals to network with one another and to interact with seasoned industry veterans. Drinks will be available, and following the reception all are encouraged to attend the Opening Session and Awards Ceremony. For more information, please see page 26.

## **OPENING SESSION & AWARDS CEREMONY (Sponsorship Available)**

5:00 pm–6:00 pm • Sunday, Oct. 5

Join GCAGS President Mary Broussard, GCSSEPM President Carl Fiduk, and General Chair Michael Quinn in welcoming attendees to Lafayette and awarding worthy individuals for their contribution to both GCAGS and GCSSEPM. You will also have an opportunity to meet candidates for AAPG office. Entrance by badge only.

## **ICEBREAKER RECEPTION (Sponsored in part by Halcón Resources, Seismic Exchange Inc., Seismic Ventures, and Geophysical Insights; Additional Sponsorship Available)**

6:00 pm–8:00 pm • Sunday, Oct. 5

Entertainment Chair Tim Rynott is planning on throwing a party to be remembered. Meet up with old friends or make new ones as you check out the Exhibit Hall, sample some south Louisiana cuisine, check out the Sunday evening Poster Session, or participate in the Treasure Hunt. Come pass a good time and get ready for the upcoming Convention. Entrance by badge only.

## **PROSPECT ALLEY (Sponsorship Available)**

Exhibit Hours • Sunday–Tuesday, Oct. 5–7

GCAGS continues Lafayette's long tradition of successful prospect expos this year by carving out an area of the exhibit hall for prospect generators to show their deals. Check out these opportunities for partnership and investment, then discuss with the service sector representatives in the hall the technologies that can be employed to help turn prospects into completions. Entrance by badge only.

## **ALL-CONVENTION LUNCHEON (Sponsored by Stone Energy)**

11:30 am–1:00 pm • Monday, Oct. 6 • \$35

Convention attendees are invited to attend the All-Convention Luncheon, where Dr. John W. Snedden, University of Texas at Austin, will present a talk on "Mesozoic of the Gulf Mexico Revisited: New Data, New Concepts, and New Plays in the Onshore and Offshore Gulf of Mexico." Space is limited, so purchase your ticket early. For more information, please see page 14.

## **GULF OF MEXICO EDUCATIONAL FORUM (Sponsored by Freeport McMoRan Oil & Gas)**

1:00 pm–4:50 pm • Monday, Oct. 6

GCAGS President Mary Broussard and Technical Chairman Bill Finley will moderate a "first of its kind" series of lectures aimed at folks who want to learn about how to look for oil and gas in the most heavily studied basin on the planet, from the folks who know it the best. Each "lesson" will be followed by Q & A, so audience participation is encouraged. For more information, please see page 12.

## **PRESIDENTS' RECEPTION (Hosted by GCAGS President Mary Broussard and GCSSEPM President Carl Fiduk, and Sponsored by ExxonMobil Exploration Co.)**

5:00 pm–6:00 pm • Monday, Oct. 6

Come by and say hi to Mary and Carl, and tell them what a great job they are doing, and how much fun you are having at the Convention. Meet up with your cronies for a drink or two before heading downtown to see the dinosaur exhibit at the Science Museum. Entrance by badge only.

## **SCIENCE MUSEUM PARTY (Industry Sponsorship Available)**

6:30 pm–10:00 pm • Monday, Oct. 6 • Lafayette Science Museum (433 Jefferson St.) • Free for all convention attendees; admission by badge (although event is free, if you plan to attend this event, please “register” for the event to assist our planning process)

In what has become a Lafayette tradition, the Monday night industry sponsored GCAGS party will be held this year in the downtown Science Museum. Come and check out the new home of the UL-Lafayette Geology Department Museum, complete with a world class dinosaur exhibit. Not sure what all kinds of goodies there will be to eat and libations there will be to drink, but this promises to be an evening of fun, frivolity, and fossils (and no, we’re not referring to the senior earth scientists in the group). This will also serve as the kick-off point for the YP Pub Crawl.

## **YP PUB CRAWL**

8:30 pm–??? • Monday, Oct. 6 • Starts at the Lafayette Science Museum (433 Jefferson St.) • \$35

We decided to try something new this year with a Pub Crawl aimed at the younger (but over 21) attendees. Our YP Chair, Samantha Leone, has put together a tour of some of the more popular watering holes in the greater Lafayette area. We expect participants to have a good time but to behave professionally. We ain’t gonna throw bail for ya, and we expect to see everyone at the early talks on Tuesday morning. Limited to 34 participants.

## **EXHIBIT HALL “WALK & TALK” BOX LUNCH (Sponsorship Available)**

11:30 am–1:15 pm • Tuesday, Oct. 7 • FREE with registration badge!

Still need to “seal the deal” with a vendor in the exhibit hall? Then feel free to do it over lunch! Exhibits and posters close at 1:30 pm, so be certain to get back to the hall once the morning oral sessions break. This will be your last chance to speak face to face with so many industry suppliers in one place until GCAGS 2015 in Houston! More information is provided on page 10.

## **A LUNCHEON IN HONOR OF ARNOLD BOUMA (Sponsorship Available)**

11:30 am–1:00 pm • Tuesday, Oct. 7 • Moderated by Dr. Erik Scott, Stratigraphy Advisor, Talisman Energy USA, Inc. • \$35

Enjoy one of Arnold Bouma’s favorite lunches, fajitas and margaritas, while sharing stories and anecdotes with some of Arnold’s students and colleagues. After a day and a half of technical talks devoted to “A Half-Century of the Turbidite,” you surely don’t want to miss this informal Tuesday luncheon.

## **LAFAYETTE GEOLOGICAL SOCIETY GOLF TOURNAMENT**

11:30 am–5:00 pm • Friday, Oct. 3 • \$100

The Lafayette Geological Society Golf Tournament will be held in Lafayette (at a location to be announced) on Friday, Oct. 3. Activities begin at 11:30 am with registration and driving range practice, lunch starting at 12:00 pm followed by a shotgun start at 1:00 pm. Cost includes tournament fees, lunch, and driving range practice time. All proceeds help fund the tournament and our various scholastic grants, to the University of Louisiana at Lafayette students and faculty, to our continuing education seminars, and to local K–12 programs. Past LGS tournaments have been a great networking event and all of the participants have had a great afternoon of camaraderie and fun. Please contact Tim Bennett at [tim@orbitenergy.com](mailto:tim@orbitenergy.com), 337–291–2720 Ext. 106, or 337–962–2916 (cell) for more information, or visit the LGS website at [www.lafayettegeologicalsociety.org](http://www.lafayettegeologicalsociety.org).



## **REGISTRATION**

### **Dates & Times:**

Saturday, Oct. 4.....	3:00 pm–6:00 pm
Sunday, Oct. 5 .....	7:00 am–8:00 pm
Monday, Oct. 6.....	7:00 am–6:00 pm
Tuesday, Oct. 7 .....	7:00 am–12:00 pm

Instructions on how to pre-register, or register on site, are provided on page 30. For additional questions or information, please inquire with [info@gemworldevents.net](mailto:info@gemworldevents.net).

## **THE EXHIBITION**

### **Dates & Times:**

Sunday, Oct. 5 (Icebreaker).....	6:00 pm–8:00 pm
Monday, Oct. 6.....	8:30 am–6:00 pm
Tuesday, Oct. 7 .....	8:30 am–1:30 pm

Explore the displays of scores of service companies, production companies, fossil and gem dealers, universities, research institutions, and publishers during the two and a half days of the exhibition. Is your company looking for a cost-effective face-to-face venue to market your products or services? Does your non-profit organization wish to promote your program to a broad cross-section of the geoscience community—at a reduced exhibit fee? See pages 10–11 for details!

**THE GCAGS EXHIBITION—Where Geoscience Meets Industry:  
Networking, technology, information systems, and this year deal-making in our Prospect Alley!**

## **SPEAKERS' & POSTER PRESENTERS' BREAKFAST (Sponsored by PetroQuest)**

7:00 am–8:00 am • Monday and Tuesday, Oct. 6 & 7

All session chairs, speakers, and poster presenters are invited to attend this complimentary breakfast on the day of their presentations. Reminders will be given regarding session timing, audiovisual equipment, how speakers will be introduced, and when poster presenters must be in their booths, followed by a Q&A session.

## **JUDGES' BREAKFAST (Sponsored by PetroQuest)**

7:00 am–8:00 am • Monday and Tuesday, Oct. 6 & 7

All judges are invited to attend this complimentary breakfast on the day(s) they agree to judge. Information will be provided as to judging criteria and regarding which sessions to attend.

## **SPEAKERS' & POSTER PRESENTERS' ROOM & JUDGES' TALLY ROOM**

### **Dates & Times:**

Sunday, Oct. 5 .....	1:00 pm–5:00 pm
Monday, Oct. 6.....	7:00 am–6:00 pm
Tuesday, Oct. 7 .....	7:00 am–5:00 pm

## **STUDENT ACTIVITIES**

The 2014 GCAGS Convention is an outstanding venue for students to participate in the rich technical program, meet with Gulf Coast professionals and mentors, and learn cutting-edge science from leaders in their fields. The student activities include access to all facets of the meeting, discounted student workshops, and networking opportunities, among other benefits. See page 26 for details.

## TEACHER ACTIVITY

The highly-regarded workshop More! Rocks in your Head! is designed to support 3–12 educators by giving each teacher a greater personal knowledge of the Earth sciences along with a package of hands-on materials to promote understanding of the sciences in the classroom. See page 27 for details.

## SPOUSE & GUEST ACTIVITIES

A variety of special activities have been arranged for spouses and guests, including a Hospitality Area and local tours that explore the unique features of the Acadiana (Cajun) region. For more information, please see page 28.

### **GCAGS BOARD MEETING**

**8:00 am–2:00 pm • Sunday, Oct. 5 • Hilton Garden Inn–Evangeline Room**

GCAGS Officers, Committee Chairs, and Society Presidents or their representatives are invited to attend the Board Meeting. An invitation and RSVP will be issued by GCAGS prior to the Convention.

### **AAPG HOUSE OF DELEGATES BREAKFAST**

**7:00 am–8:00 am • Monday, Oct. 6 • Hilton Garden Inn–Evangeline Room**

If you are an AAPG delegate, plan to attend a special breakfast on Monday morning. An invitation and RSVP will come directly from AAPG prior to the Convention.

**Register Soon! Early bird discount ends August 17, 2014!**



## GCAGS in the Digital Realm

- Visit our website, [www.gcags2014.com](http://www.gcags2014.com), for more details and continual updates.
- Have a smart phone or pad? Scan the QR code at left and it'll take you directly to the convention website.
- “Like” us on Facebook at:  
<https://www.facebook.com/events/454043738048706/>
- Look forward to our convention app, giving you on-the-go access to convention details, including abstracts!

All events in the Cajundome Convention Center unless otherwise specified. All times and locations are subject to change. Please visit [www.gcags2014.com](http://www.gcags2014.com) for current information.

## Saturday, Oct. 4

8:00 am–5:00 pm	Short Course #1: Imperial Barrel Award Competition Training (Students Only), p. 22
8:00 am–5:00 pm	Short Course #2: Risk Evaluation and Corrective Action Program (RECAP), p. 22
8:30 am–3:30 pm	Teacher Activity: More! Rocks in Your Head! (3–12 Teachers Only), p. 28
8:30 am–5:00 pm	Field Trip #1: Wax Lake Delta, p. 24
3:00 pm–6:00 pm	Registration, p. 30

## Sunday, Oct. 5

7:00 am–3:00 pm	Field Trip #3: The Use of Louisiana Salt Domes and Associated Geological Difficulties—Exploration, Production, and Storage, p. 24
7:00 am–8:00 pm	Registration, p. 30
8:00 am–12:00 pm	Short Course #4: Introduction to Reservoir Fluid PVT Analysis for Geologists, p. 22
8:00 am–2:00 pm	GCAGS Board Meeting, Hilton Garden Inn–Evangeline Room, p. 5
8:00 am–4:00 pm	Short Course #3: Seismic Amplitude Interpretation, p. 22
8:00 am–4:00 pm	Short Course #5: Geologic Interpretation of Deepwater Environments on Seismic Data, p. 23
8:00 am–4:00 pm	Short Course #6: Modern Turbidite Systems, p. 23
8:00 am–5:00 pm	Field Trip #2: Geomorphology and Hydrogeology of the Lafayette Area, p. 24
1:00 pm–5:00 pm	Speakers' & Poster Presenters' Room, p. 4
1:00 pm–5:00 pm	Judges' Tally Room, p. 4
2:00 pm–4:00 pm	Spouse & Guest Hospitality Room, Hilton Garden Inn–Fireplace Lobby, p. 28
3:00 pm–4:00 pm	Young Professionals' & Students' Meet & Greet, p. 2
5:00 pm–6:00 pm	Opening Session & Awards Ceremony, p. 2
6:00 pm–8:00 pm	Icebreaker Reception (Sponsored by Halcon Resources), p. 2
6:00 pm–8:00 pm	Exhibition and Prospect Alley, p. 10
6:00 pm–8:00 pm	Poster Session 1, p. 20

## Monday, Oct. 6

7:00 am–8:00 am	Speakers' & Poster Presenters' Breakfast, p. 4
7:00 am–8:00 am	Judges' Breakfast, p. 4
7:00 am–6:00 pm	Speakers' & Poster Presenters' Room, p. 4
7:00 am–6:00 pm	Judges' Tally Room, p. 4
7:00 am–6:00 pm	Registration, p. 30
7:00 am–8:00 am	AAPG House of Delegates Breakfast, Hilton Garden Inn–Evangeline Room, p. 5
7:30 am–9:30 am	Spouse & Guest Hospitality Area, Hilton Garden Inn–Fireplace Lobby, p. 28
8:30 am–6:00 pm	Exhibition and Prospect Alley, p. 10
8:15 am–11:15 am	Oral Session: Conventional Onshore (Part 1), p. 16
8:15 am–11:15 am	Oral Session: Deepwater / Turbidites (Part 1), p. 17
8:15 am–11:15 am	Oral Session: Environmental (Part 1), p. 17
8:15 am–11:20 am	Oral Session: Emerging Shelf Plays of the Gulf, p. 16
8:30 am–11:30 am	Posters Session 1 (continued), p. 20
9:00 am–4:30 pm	Optional Spouse & Guest Activity #1: Tour of Iberia Parish Gardens, Tabasco Factory, and Antebellum Home, p. 28
11:30 am–1:00 pm	All-Convention Luncheon, p. 14
1:00 pm–4:55 pm	Gulf of Mexico Educational Forum, p. 12
1:10 pm–4:35 pm	Oral Session: Deepwater / Turbidites (Part 2), p. 17



<b>Monday, Oct. 6, Continued</b>	
1:10 pm–4:35 pm	Oral Session: Environmental (Part 2), p. 18
2:30 pm–6:00 pm	Poster Session 2, p. 21
4:00 pm–6:00 pm	Spouse & Guest Hospitality Area, Hilton Garden Inn–Fireplace Lobby, p. 28
5:00 pm–6:00 pm	Presidents’ Reception, p. 2
6:30 pm–10:00 pm	Science Museum Party, Lafayette Science Museum, p. 3
8:30 pm–???	YP Pub Crawl, Starts from Lafayette Science Museum, p. 3

<b>Tuesday, Oct. 7</b>	
7:00 am–8:00 am	Speakers’ & Poster Presenters’ Breakfast, p. 4
7:00 am–8:00 am	Judges’ Breakfast, p. 4
7:00 am–12:00 pm	Registration, p. 30
7:00 am–5:00 pm	Speakers’ & Poster Presenters’ Room, p. 4
7:00 am–5:00 pm	Judges’ Tally Room, p. 4
7:30 am–10:00 am	Spouse & Guest Hospitality Area, Hilton Garden Inn–Fireplace Lobby, p. 28
8:15 am–9:35 am	Oral Session: Environmental (Part 3), p. 19
8:15 am–11:15 am	Oral Session: Technology, p. 18
8:15 am–11:15 am	Oral Session: Conventional Onshore (Part 2), p. 18
8:15 am–11:15 am	Oral Session: Deepwater / Turbidites (Part 3), p. 18
8:30 am–11:30 am	Poster Session 2 (continued), p. 21
8:30 am–1:30 pm	Exhibition and Prospect Alley, p. 10
10:00 am–11:15 am	Oral Session: Resource Plays (Part 1), p. 19
10:00 am–2:00 pm	Optional Spouse & Guest Activity #2: Cajun Food Tours, p. 28
11:30 am–1:00 pm	“Walk & Talk” Lunch, p. 3
11:30 am–1:00 pm	Bouma Symposium Luncheon, p. 14
1:10 pm–1:35 pm	Oral Session: Deepwater / Turbidites (Part 4), p. 20
1:10 pm–2:55 pm	Oral Session: Conventional Onshore (Part 3), p. 19
1:10 pm–3:55 pm	Oral Session: Resource Plays (Part 2), p. 20
1:10 pm–4:20 pm	Oral Session: Ethics, p. 19
1:35 pm–3:55 pm	Oral Session: Salt Tectonics, p. 20
2:30 pm–2:40 pm	Coffee Break

## BE A JUDGE! VOLUNTEERS NEEDED!

The recognition of outstanding technical presentations is fundamental to the advancement of geological ideas and concepts. GCAGS and GCSSEPM needs your help in judging oral and poster sessions. All judges will be invited to a complimentary breakfast and asked to provide input to determine award winners. All that is required is observation of oral and poster sessions with grading based on standardized score cards. The awards committee will compile the scores, with winners honored at the next year’s convention.

Please volunteer by checking the appropriate box on your registration form or by contacting: Jim Gamble, Judging Chair, Stone Energy, 337–521–0216, 337–781–3294, [gamblejd@stoneenergy.com](mailto:gamblejd@stoneenergy.com).

The awards committee will contact you to determine your preference for session(s) you are interested in judging—every effort will be made to place you in the session(s) of your choice. Your participation will be both rewarding and appreciated.

We extend a very special thank you to our sponsors for supporting the 2014 GCAGS/GCSSEPM Annual Convention and Exhibition. Their continued support is fundamental to having a successful meeting.

## Diamond

Chevron  
Shell  
Freeport McMoRan Oil & Gas

## Ruby

ExxonMobil Exploration Company  
Stone Energy  
Helis Oil

## Sapphire

CGG	TGS
PetroQuest	Halcón Resources
Ion	Anadarko
Marathon	

## Topaz

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PetroLog	Shoreline Energy LLC
Hydrate Energy Intl.	Seismic Ventures
Bennett Systems	Seismic Exchange Inc.
Talisman	Geophysical Insights

## Patron

Badger Oil	Bill Whiting
C&C Technologies	Lafayette Geol. Research
Core Lab	WTC, Inc.
Seitel	SAI Geoconsulting
Island Energy	Comeaux & McAlister
LLOG	

For more information about sponsorship opportunities for  
GCAGS 2014, please contact:

Mary Broussard at 337-354-5041 or [mary\\_broussard@fmi.com](mailto:mary_broussard@fmi.com)

## **OPENING SESSION • 5:00 pm–6:00 pm • Sunday, Oct. 5**

Join GCAGS President Mary Broussard, GCSSEPM President Carl Fiduk, and General Chair Michael Quinn in welcoming attendees to Lafayette and awarding worthy individuals for their contributions to both the GCAGS and GCSSEPM. Meet candidates for AAPG office as well.

## **AWARDS CEREMONY • 5:00 pm–6:00 pm • Sunday, Oct. 5**

The Awards Ceremony recognizes the 2014 recipients of GCAGS and GCSSEPM special honors, as well as the awardees of the best presentations and best published papers in the 2013 *GCAGS Transactions* and *GCAGS Journal*, all of whose works have made an important contribution to the GCAGS and the advancement of geosciences.

2014 *GCAGS Transactions* Dedication – Daniel J. Tearpock (deceased)

2014 GCAGS Honorary Membership – Brian E. Lock

2014 GCAGS Special Commendation Award – Arthur H. Johnson

2014 GCAGS Outstanding Educator – Timothy W. Duex

2014 Owen R. Hopkins Outstanding Earth Science Teacher Award – Jennifer Denise Reyes

2014 GCSSEPM Doris Curtis Malkin Medal – Shirley Dutton

2014 GCSSEPM Distinguished Service Award – David T. King, Jr.

2014 GCSSEPM Honorary Membership Award – Brian E. Lock

2014 AAPG Gulf Coast Section Imperial Barrel Award – 1st Place, University of Louisiana at Lafayette (advanced to and won 2014 AAPG Global Imperial Barrel Award); 2nd Place, Texas A&M University; 3rd Place, University of Houston

2013 AAPG Gulf Coast Section A. I. LEVORSEN MEMORIAL AWARD – Jonathan P. Parker, co-authors: Claudia Montoya, Richard Uden, Oleg Yakovlev, and Michael Murat, "Comparison of Ocean Bottom Node and Legacy Narrow-Azimuth Seismic Surveys at Ewing Bank, Gulf of Mexico"

2013 THOMAS A. PHILPOTT EXCELLENCE OF PRESENTATION AWARDS – 1st Place, Jonathan P. Parker, Claudia Montoya, Richard Uden, Oleg Yakovlev, and Michael Murat, "Comparison of Ocean Bottom Node and Legacy Narrow-Azimuth Seismic Surveys at Ewing Bank, Gulf of Mexico"; 2nd Place, Richard Denne and Robert Blanchard, "Regional Controls on the Formation of DeSoto Canyon, Gulf of Mexico"; and 3rd Place, Jeffrey Nittrouer, "Hydrodynamics and Sediment Transport in the Lowermost Mississippi River: Implications for the Development of Fluvial-Deltaic Stratigraphy in Large Lowland River Basins"

2013 GORDON I. ATWATER BEST POSTER AWARDS – 1st Place, Regina Dickey, "Palynology and Paleoenvironment of Paleocene-Eocene Wilcox Group Sediments in Bastrop, Texas"; 2nd Place, Joshua Vanlandingham and W. Joe Lambert, "Unraveling Gulf Coast Paleo-Rainfall Variability using Climate Proxies Archived in Alabama Stalagmites"; and 3rd Place, Jason Asmus and G. Michael Grammer, "Characterization of Deepwater Carbonate Turbidites and Mass-Transport Deposits Utilizing High-Resolution Electrical Borehole Image Logs: Upper Leonardian (Lower Permian) Upper Bone Spring Limestone, Delaware Basin, Southeast New Mexico and West Texas"

2013 GROVER E. MURRAY BEST PUBLISHED PAPER AWARDS – 1st Place, Thomas E. Ewing, "Stratigraphy of the Austin, Eagle Ford, and Anacacho Formations and its Influence on Hydrocarbon Resources, Pearsall Field Area, South Texas"; 2nd Place (tie) – Malcolm B. Hart, Peter J. Harries, and Andrés L. Cárdenas, "The Cretaceous/Paleogene Boundary Events in the Gulf Coast: Comparisons between Alabama and Texas" and David T. King, Jr. and Lucille W. Petruny, "Stratigraphy of the Margaret Creek Formation, Corozal Basin, Northern Belize"; and 3rd Place, Brian E. Lock, Joseph W. Grimball, and Jack G. Johnson, "The Cenomanian Del Rio Formation in West Texas"

2013 PRESIDENT'S AWARD FOR OUTSTANDING PAPER, *GCAGS Journal* – Jerry Lucia and Robert Loucks, "Micropores in Carbonate Mud: Early Development and Petrophysics"

The Exhibit Hall will be the host area for a number of events, so there will be plenty of opportunities to explore all that the exhibitors have to offer, see old acquaintances, and forge new ones.

- The traditional Icebreaker cocktail party held on Sunday in the hall;
- The Prospect Alley, where deals might be made, is open during general Exhibition hours from Sunday to Tuesday;
- The Presidents' Reception will be held in the Exhibit Hall from 5:00 pm to 6:00 pm on Monday;
- Extended breaks in the morning and afternoon oral sessions will permit in-depth discussions with the poster presenters; and
- A free "walk-and-talk" lunch on Tuesday.

#### Show hours are:

Sunday, 5 October (Icebreaker) .....	6:00 pm–8:00 pm
Monday, 6 October .....	8:30 am–6:00 pm
Tuesday, 7 October .....	8:30 am–1:30 pm

*Please note that 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.*

## Current List of Exhibitors

### 2015 GCAGS Annual Convention, Sept. 20–22, Houston

Houston Geological Society  
AAPG  
Bureau of Economic Geology  
CGG  
Chemostrat  
Core Mineralogy  
Diversified Well Logging  
DownUnder GeoSolutions  
Ellington & Associates  
Fluid Inclusion Technologies  
GCAGS Bookstore  
Gems & Crystals Unlimited  
GeoCare Benefits Insurance  
(AAPG member program)  
Geokinetics USA  
Geomap Company  
Geophysical Insights

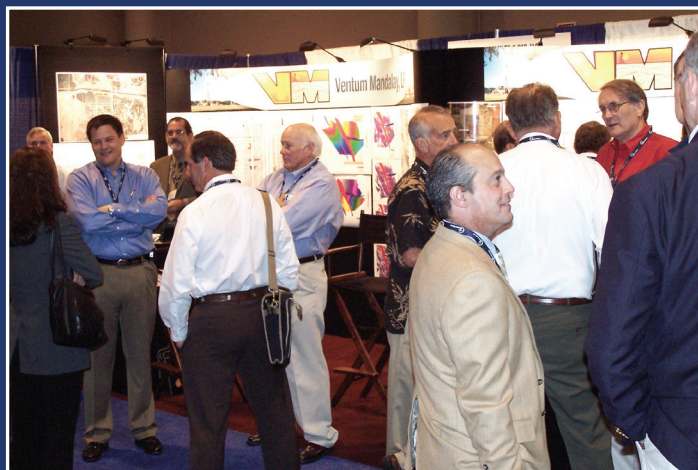
Getech  
Gulf Coast Section SEPM Foundation  
Horizon Well Logging  
Integrated Geophysics Corp.  
ION Geophysics  
Louisiana Geological Survey  
Louisiana State University/Dept. of  
Geology & Geophysics  
Neuralog  
Paleo-Data Inc.  
SCM E&P Solutions  
Seismic Exchange  
Seitel  
Stratagraph Inc.  
TaskFronterra Geoscience  
TGS  
Thompson Solutions/Gravity Map Service  
Tricon Geophysics  
Weatherford Laboratories

### Interested in Exhibiting?

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We're also hopeful our "Prospect Alley" turns into the "Conventional Corridor" by encouraging companies with conventional Gulf Coast prospects to participate alongside the vendors providing the technology to take your prospect to completion. It should be a busy place!

For more information, please visit the convention website at [www.gcags2014.com](http://www.gcags2014.com) or contact King Munson at [kingmunson@gmail.com](mailto:kingmunson@gmail.com).



## GULF OF MEXICO EDUCATIONAL FORUM • 1:00 pm–4:55 pm • Monday, Oct. 6 • Moderated by Mary Broussard and Bill Finley (Sponsored by Freeport McMoRan Oil & Gas)

In what may be a first-of-a-kind forum for the GCAGS Convention, GCAGS President Mary Broussard has gathered an outstanding panel of 4 leading experts on the geology and geophysics of the Gulf of Mexico, including: Carl Fiduk, GCSSEPM President; Ernie Mancini, University of Alabama Emeritus Professor; Roger Slatt, University of Oklahoma Professor; and Fred Hilterman, Geokinetics Chief Scientist. Four presentations will be given on topics that should be of interest to anyone who works Exploration or Development projects in the Gulf of Mexico – or anywhere else. It matters not if you are a student, brand new to the industry, or a 30+ year veteran. There will be lessons to be learned for all attendees.

Moderated by Mary and Technical Program Chairman Bill Finley, the symposium is designed to be given as four (4) separate talks, each followed by a brief period of Q&A. Judging from the titles, this should be an informative and lively forum with something for everyone. We hope you can join the forum in its entirety, or – at the very least – stop by to hear about a specific topic of interest.

### ***“Tectonics and Depositional Episodes of the Northern Gulf of Mexico: A Brief History and Petroleum Geology”***

–Dr. J. Carl Fiduk, Chief Geologist, Schlumberger

**Summary:** This lecture will attempt to summarize the critical factors which have influenced the formation and evolution of the Gulf of Mexico. It will cover the basin’s physiography and tectonic origin as a result of crustal extension during the early Mesozoic breakup of Pangaea. It will address the great importance of the Louann evaporite deposit. Deformation and movement of the Louann salt affects almost all the overlying strata and plays a very important role in all aspects of the basin’s petroleum systems. It will discuss the importance of paleolatitude, climate, and tectonic development as related to depositional systems and sediment accumulation. The five depositional megasequences each have unique characteristics that contribute to making the Gulf of Mexico a world class petroleum province.



**Biography:** Carl holds a B.S. and M.S. degree in Geology from the University of Florida, an M.B.A. degree from the University of Texas of the Permian Basin, and a Ph.D. in Geology and Geophysics from the University of Texas at Austin. Having held multiple positions in the oil industry, the Federal Government, and Academia, Carl is currently Chief Geologist for WesternGeco in Houston, Texas. His research interests cover clastic deposition, salt structural deformation and evolution, basin analysis, shelf margin to deep marine depositional processes, marine sedimentology, petroleum systems analysis, and the use of three-dimensional seismic data in petroleum exploration. Current research interests include salt-sediment interaction, fluvial deltaic deposition in the Cretaceous Seaway of NW Colorado, and deep marine stratigraphic analysis in the Gulf of Mexico. Carl teaches internal training classes on seismic interpretation and salt tectonics for WesternGeco and external industry courses for Nautilus U.S.A. and local geologic societies. Carl is an AAPG Certified Petroleum Geologist, and holds membership the Houston Geological and Geophysical Societies, the Society of Exploration Geophysicists, the Society for Sedimentary Geology, and in is a member of the Gulf Coast Section SEPM where he is the current President. Carl has published over 70 peer-reviewed abstracts and papers.

### ***“Turbidite Petroleum Geology in the Deepwater/Subsalt Gulf of Mexico”***

–Dr. Roger M. Slatt, Gungoll Family Chair Professor, University of Oklahoma

**Summary:** It has been over 10 years since discovery of large Gulf of Mexico deepwater/subsalt discoveries such as Mars-Ursa, Thunder Horse, Tahiti, Mad Dog, and Cascade. Exploration and drilling activity have now returned to pre-Macondo Tragedy (2010) levels—under more stringent regulations—and new discoveries are being made at regular time intervals. Giant, Middle-Lower Miocene fields such as Tahiti, Mad Dog, and Thunder Horse are entering their peak plateau production. Large and older Upper Miocene and Pliocene fields such as Auger, Conger, and Mars-Ursa are being rejuvenated by secondary and enhanced recovery.



Paleogene fields such as Jack and Cascade-Chinook are in their early stages of development. Appraisal activities for deeper targets in existing big fields are also common, adding tremendous upside potential for current big fields (e.g., Cardamom Deep, Mad Dog Deep, and Mars-Ursa discoveries). Technologies are keeping pace with exploration and drilling to deeper depths and further offshore. These submarine fan reservoirs have many features in common, but usually with some differences. (Summary coauthored with Fuge Zou.)

**Biography:** Roger M. Slatt currently holds the Gungoll Family Chair Professor in Petroleum Geology and Geophysics at the University of Oklahoma and is Director of the Institute of Reservoir Characterization in the Sarkeys Energy Center at OU. Previously he worked at Memorial University of Newfoundland, Arizona State University, Cities Service Research, ARCO, and the Colorado School of Mines. He has published over 100 papers

and abstracts, and made numerous presentations on the subjects of petroleum and reservoir geology, seismic and sequence stratigraphy, shallow marine and turbidite depositional systems, geology of shale, glacial and Pleistocene-Quaternary geology, and geochemical exploration. He has received numerous awards, including AAPG Distinguished Service Award, AAPG Honorary Membership, AAPG Grover Murray Distinguished Educator Award, and SEG Special Commendation Award.

### ***“Characteristics of Carbonate Rocks: Examples from the Northern Gulf of Mexico”***

**–Dr. Ernest A. Mancini, Professor Emeritus, Department of Geological Sciences, University of Alabama**

**Summary:** This lecture focuses on the sedimentary and stratigraphic characteristics of carbonate rocks in the northern Gulf of Mexico. Emphasis is placed on carbonate depositional models, systems and associated potential reservoir facies. The anatomy of carbonate reservoirs is examined from thin sections, cores, well logs, and outcrops. The effects depositional conditions and diagenetic processes have on reservoir quality and productivity are reviewed. The lecture concludes with discussion about exploration and development strategies for carbonate reservoirs.



**Biography:** Ernest A. Mancini is Professor Emeritus in geological sciences in the areas of petroleum geology and stratigraphy in the Department of Geological Sciences, the University of Alabama. He is the founding director of the Center for Sedimentary Basin Studies and of the Eastern Gulf Region of the Petroleum Technology Transfer Council at the University of Alabama. Mancini is the first director for the Berg-Hughes Center for Petroleum and Sedimentary Systems at Texas A&M University. He served as State Geologist of Alabama and director of the Geological Survey of Alabama and as Oil and Gas Supervisor of Alabama and director of the State Oil and Gas Board of Alabama.

### ***“Seismic Attribute Analysis of the Gulf of Mexico”***

**–Dr. Fred Hilterman, Chief Scientist, Geokinetics, Inc.**

**Summary:** The fluid factor ( $\Delta F$ ), Poisson impedance ( $PI$ ), and lambda-rho ( $\lambda\rho$ ) are three seismic attributes commonly used to predict pore fluid and lithology. The pore-fluid sensitivity of these attributes was evaluated with both well-log and seismic data in Tertiary unconsolidated sediments from the Gulf of Mexico. While the sensitivity of one attribute versus another to discriminate pore fluid is often debated, the sensitivity of the three attributes are not independent but can be traced back to the fluid factor. The three attributes along with their statistical distributions for different pore fluids were measured in 183 reservoirs and then used to quantify the seismic amplitude in a 3D survey to “true” reflectivity values thus allowing pore-fluid classification.



**Biography:** Dr. Fred Hilterman started his career with Mobil in the field. Upon receiving his Ph.D. from Colorado School of Mines (CSM), he rejoined Mobil and then left for the University of Houston (UH) in 1973, where he co-founded the Seismic Acoustics Laboratory (SAL). Later, along with two associates, Fred co-founded Geophysical Development Corporation (GDC), which offered innovative services integrating log and seismic data. After the acquisition of GDC by Geokinetics, he tagged along where he works today as Chief Scientist. He has enjoyed recognition by his peers with awards that include the Virgil Kauffman Gold Medal, the Maurice Ewing Medal, Honorary Membership from SEG, and the Distinguished Alumni Medal from CSM. He has been a continuing education instructor for SEG and AAPG since 1976, and was selected by the SEG to be the 2001 Distinguished Instructor. Fred is also a Distinguished Research Professor at UH and will be the first to say that among all his accomplishments, he most enjoys teaching geophysics to those with a hunger for learning.



## **ALL-CONVENTION LUNCHEON (Sponsored by Stone Energy)**

### ***“Mesozoic of the Gulf Mexico Revisited: New Data, New Concepts, and New Plays in the Onshore and Offshore Gulf of Mexico”***

–Dr. John W. Snedden, Senior Research Scientist, University of Texas at Austin

11:30 am–1:00 pm • Monday, Oct. 6 • \$35

**Abstract:** The Gulf of Mexico Basin is one of the richest hydrocarbon basins of the world, with estimated ultimate recoverable hydrocarbon reserves exceeding 140 BBOE. However, opportunity space in the primary Paleogene subsalt play of the ultra-deepwater is beginning to narrow and operators are looking more closely at the Mesozoic in offshore areas, particularly in the eastern Gulf of Mexico. This is timely as emerging new ideas are leading to a reevaluation of the Mesozoic framework history, including how the Chicxulub impact event at the end of the Cretaceous altered the deep Gulf of Mexico seascape and set up subsequent deepwater deposition. New models have been formulated for the timing and distribution of salt deposition and sea-floor spreading. Our understanding of the Mesozoic source to sink system transport system and basin entry points continues to evolve. Onshore Gulf of Mexico drilling and new biostratigraphic data from deepwater wells has reinvigorated Mesozoic biostratigraphy work. Wells drilled in the deep subsalt province have altered our view of the Mesozoic source to sink depositional pathways, leading us to question previous North American paleogeographic maps. Onshore, exploitation of source rocks as shale gas plays in the Jurassic Haynesville and Cretaceous Eagle Ford and Tuscaloosa Marine Shale have generated significant drilling activity and this in turn has stimulated a reexamination of interpreted Mesozoic source rock distributions, including offshore areas of the Gulf of Mexico. Our perspective on the Mesozoic exploration potential is likely to change as well, given new and ongoing seismic refraction and reflection work.



**Biography:** John W. Snedden is Senior Research Scientist and Director of the Gulf Basin Depositional Synthesis Project at the Institute for Geophysics, University of Texas at Austin. He received his B.A. from Trinity University (San Antonio), his M.S. at Texas A&M University (College Station), and Ph.D. from Louisiana State University (Baton Rouge). With multiple domestic and international assignments, he worked for Mobil and ExxonMobil for over 25 years in research, exploration, development, and production prior to joining UT. John has published on modern and ancient lagoonal, fluvial, deltaic, shelfal, and deepwater deposits as well as sequence stratigraphic correlation and reservoir connectivity. He has served as Vice-President of GCSSEPM and Secretary-Treasurer of SEPM. John has won the SEPM Excellence in Oral Presentation award and, with his co-authors, is the first recipient of the *GCAGS Journal* Best Paper Award.

## **BOUMA SYMPOSIUM LUNCHEON (Sponsorship Available)**

### ***“A Half-Century of the Turbidite”—A Luncheon in Honor of Arnold H. Bouma***

–Moderated by Dr. Erik Scott, Stratigraphy Advisor, Talisman Energy USA, Inc.

11:30 am–1:00 pm • Tuesday, Oct. 7 • \$35

*Arnold H. Bouma commenced his geological studies in Groningen in 1951, under the tutorship of Professor Kuenen. An assistantship enabled him to help with many of the experiments of Professor Kuenen and Dr. Van Straaten. After obtaining his bachelor's degree, he went to the State University of Utrecht. From 1956 to 1960 he was assistant to Professor Doeglas. In 1960 he was elected treasurer to the Internationals Association of Sedimentology. Dr. Bouma obtained his Master of Science degree in 1959 and his doctor's degree in 1961. –Biography from “Sedimentology of Some Flysch Deposits” (1963).*

In 1963, Arnold Bouma published his thesis, “Sedimentology of Some Flysch Deposits,” documenting his observations of sandstone beds predominately in outcrops around Peira Cava, France, and introducing a systematic depositional pattern from a turbulent flow, which has become known as the Bouma Series. Over the next fifty years, this concept has been expanded upon by many geologists, fundamentally advancing our understanding of sedimentological processes occurring not only in deepwater settings, but everywhere sediment gravity flows occur.



Arnold also had a more direct impact on numerous students and colleagues during his career in academia, industry, and government. Many stories can be told of interacting with Arnold at conferences, in the classroom, and out in the field on the outcrops. This luncheon will provide an opportunity to share stories about Arnold, especially ones he personally would have loved to recount. Arnold was a huge supporter of GCAGS, making this the perfect venue for remembering Arnold's contribution to sedimentology and his influence on sedimentologists.



### United Airlines Discount Information



United Airlines is pleased to offer 2–10 percent discounts (depending on class of service) for the 2014 GCAGS Convention for flights to/from Lafayette, LA (LFT) from October 2–9, 2014. Save an additional 3% off by booking your own reservations at [www.united.com](http://www.united.com).

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# ExxonMobil

## ORAL SESSIONS (Sponsored by Helis, Marathon, and TGS)

### Monday AM

#### EMERGING SHELF PLAYS OF THE GULF • Clint Moore and Mike Neese, Co-Chairs

8:15 **OPENING REMARKS**

8:20 **Richard H. Fillon and Arthur S. Waterman:** Cenozoic Evolution of Northern Gulf of Mexico Shelf–Upper Slope Deposystems and Shelf Edges

8:40 **Richard H. Fillon, Arthur S. Waterman, and Grant Wach:** Where are the Gulf of Mexico Late Paleogene Deepwater Reservoirs? Oh Canada.

9:00 **Andy Clifford:** New Plays and New Players Bring New Life to the Gulf of Mexico Shelf

9:20 **Randal Utech, Dan Shan, Dianna Shelander, Ellya Saudale, Kirk Rodgers, Ahmed Ammar, Tim Wilkinson, and Rick Clark:** Enhancing Reservoir Definition for Field Modeling and Simulation with Seismic Elastic Properties and Discontinuity Analysis—A Case History for Main Pass 61, Gulf of Mexico

9:40 **BREAK**

10:00 **Tom Hall, David Hruzek, and Paul Riegler:** SS 208–209: A Fresh Look at an Old Field, with Integration of Disciplines, Yields New Reserves

10:20 **Vinod Kumar, Alex Tseo, Casey Slattery, and Mary Lindsey Bateman:** Application of Azimuthal Deep Resistivity and Azimuthal Near-Bit Gamma during Reservoir Navigation in Highly Dipping Sand Reservoirs, Grand Isle 16 Field, Gulf of Mexico

10:40 **David Fugitt and Lyle Redlich:** Getting the Last Few Drops out of a Large Oil Reservoir in South Timbalier 52 Field, Gulf of Mexico

11:00 **Clint Moore:** Advanced Exploration Technology and Concepts—Key to Future Gulf of Mexico Deep Shelf Oil and Gas

#### CONVENTIONAL ONSHORE (Part 1) • Tom Ewing and Frank Vincent, Co-Chairs

8:15 **OPENING REMARKS**

8:20 **Peter R. Rose:** M. King Hubbert, “Peak Oil,” and U.S. Energy Policy

9:10 **Ibrahim Çemen:** Developing a Hydrocarbon Exploration Tool in the Arkoma Basin, Oklahoma

9:35 **BREAK**

10:00 **John D. Pigott and Bryant W. Bradley:** Clastic Facies Reservoir Characterization in a Sequence Stratigraphic Framework through Production Decline Curve Analysis: Example from the Frio Formation, South Texas

10:25 **Shirley P. Dutton and Robert G. Loucks:** Reservoir Quality and Porosity-Permeability Trends in Onshore Wilcox Sandstones, Texas and Louisiana Gulf Coast: Application to Deep Wilcox Plays, Offshore Gulf of Mexico

10:50 **William A. Ambrose, Tucker F. Hentz, and David Smith:** Facies Variability and Reservoir Quality in the Shelf-to-Slope Transition, Upper Cretaceous (Cenomanian) Woodbine Group, Northern Tyler and Southeast Polk Counties, Texas, USA



## **DEEPWATER / TURBIDITES (Part 1) • Erik Scott and Allan Brown, Co-Chairs**

**8:15 OPENING REMARKS**

**8:20 C. Hans Nelson and John E. Damuth:** Selected Highlights for 50 Years of Turbidite Studies since Introduction of the Bouma Sequence

**9:10 Erik Scott and Wayne Abraham:** Evaluating the Stratigraphy of a Paleo-Stepped Slope Profile, Offshore NW Borneo

**9:35 BREAK**

**10:00 J. W. Snedden, I. O. Norton, G. L. Christeson, and J. C. Sanford:** Interaction of Deepwater Deposition and a Mid-Ocean Spreading Center, Eastern Gulf of Mexico Basin, USA

**10:25 John R. Dribus:** A Comparison of Gulf of Mexico Lower Tertiary Turbidites to West Africa (Offshore Ghana) Jubilee Turbidites

**10:50 Harry H. Roberts and Richard H. Fillon:** The Role of Turbidites in Gas Charging of Shelf-Edge Delta Sand Bodies: Lagniappe Delta, Gulf of Mexico

## **ENVIRONMENTAL (Part 1) • Julia Battle and Bill Schramm, Co-Chairs**

**8:15 OPENING REMARKS**

**8:20 T. W. Duex, J. E. Martin, and D. M. Borrok:** Merger of the University of Louisiana Geology Museum and the Lafayette Science Museum and Potential Use as an Educational Tool

**8:45 Jeffrey A. Nunn: Bubble, Bubble, Tremors, and Trouble:** The Bayou Corne Sinkhole in Assumption Parish, Louisiana

**9:10 William H. Schramm and Lewis Donlon:** Salt Dome Gas Storage and Brine Production Facilities: Geological, Environmental, and Safety Issues

**9:35 BREAK**

**10:00 Shawn Brasseaux and Timothy W. Duex:** The Effects of the Mississippi River Gulf Outlet on Coastal Louisiana Land Loss

**10:25 Kathleen S. Haggart:** Coastal Land Loss and Landscape Level Plant Community Succession: An Expected Result of Natural Tectonic Subsidence, Fault Movement, and Sea Level Rise

**10:50 Claire E. Babineaux:** Recycled Glass Cullet as an Alternative to Dredged Sediments for Coastal Replenishment

## **Monday PM**

### **GULF OF MEXICO EDUCATIONAL FORUM**

**1:00 J. Carl Fiduk:** Tectonics and Depositional Episodes of the Northern Gulf of Mexico: A Brief History and Petroleum Geology

**2:25 Roger Slatt:** Turbidite Petroleum Geology in the Deepwater/Subsalt Gulf of Mexico

**3:15 Ernie Mancini:** Characteristics of Carbonate Rocks: Examples from the Northern Gulf of Mexico

**4:05 Fred Hilterman:** Seismic Attribute Analysis of the Gulf of Mexico

## **DEEPWATER / TURBIDITES (Part 2) • Erik Scott and Allan Brown, Co-Chairs**

**1:10 OPENING REMARKS**

**1:15 Walter W. Wornardt:** Wilcox and Upper Cretaceous Sediments were Established from Campeche, Mexico, Alaminos Canyon, McMoran and Shallow Shelf Wells in South Marsh Island, Gulf of Mexico, Using Maximum Flooding Surfaces, Seismic Data, and High Resolution Biostratigraphy

**1:40 Harry N. Gardea and Raden D. Ramadhan:** Deepwater Sedimentary Processes and Systems in Deepwater Basin Margins

**2:05 Zane R. Jobe, Zoltan Sylvester, Carlos Pirmez, Bradford Prather, Sherif Abd El-Gawad, Daniel Minisini, Alessandro Cantelli, Nick Howes, and Ru Smith:** Ultra-High Resolution Modern Analog Dataset from the Western Niger Delta Slope: Facies Architecture and Application to Turbidite Reservoirs

**2:30 Margie Kloska, Mihaela Ryer, Steve Strauss, Andry Nabasir, Misael Uribe, and Laura Dunn:** An Integrated Approach to Reservoir Typing and Characterization of a Complex Deepwater System, Stampede Field, Green Canyon, Gulf of Mexico

**2:55 BREAK**

**3:20 O. A. Oyedele, W. R. Dupré, and K. J. Marfurt:** Seismic Facies Analysis and Age Dating of Mid-Pleistocene Channel-Lobe Deposits

**3:45 Donald E. Rehmer and Arnold H. Bouma:** Sand Body Thickness Variation Implications on Reservoir Characteristics of Turbidite Sands

**4:10 Fuge Zou:** A Regional Sequence Stratigraphic Framework for the Jackfork Group, Arkansas

**Register Soon! Early bird discount ends August 17, 2014!**

### ENVIRONMENTAL (Part 2) • Julia Battle and Bill Schramm, Co-Chairs

#### 1:10 OPENING REMARKS

- 1:15 Louis G. Zachos and Charles T. Swann:** Contribution of Subtle Geomorphic Features of the Mississippi River Alluvial Plain to Flood Vulnerabilities—A Case Study
- 1:40 J. Lopez, T. Henkel, A. Moshogianis, A. Baker, E. Boyd, E. Hillmann, and D. Baker:** Examination of Deltaic Processes of Mississippi River Outlets—Caernarvon Delta and Bohemia Spillway in Southeastern Louisiana
- 2:05 Ghulam Sarwar:** Current Rift Related Wrenching of the Gulf Coast Margin: Implications for the Human Habitat
- 2:30 Michael B. Kyle, Scott M. Bergeron, William M. Davis, William H. Schramm, Raymond Sturdivant, Jr., and George Lososky:** Accelerated Environmental Management through High-Resolution Data Acquisition
- 2:55 BREAK**
- 3:20 John Herbert:** The (Incomplete) History of Site Characterization and Remediation at the Cabot Carbon/Koppers Superfund Site, Gainesville, Florida
- 3:45 George Lososky, Raymond Sturdivant, Jr., William M. Davis, Scott M. Bergeron, Michael B. Kyle, and William H. Schramm:** Contaminant Fate and Transport in Gulf Coast Sediments: A Case Study
- 4:10 John Herbert:** Water Supply Planning in North Florida

### Tuesday AM

### CONVENTIONAL ONSHORE (Part 2) • Tom Ewing and Frank Vincent, Co-Chairs

#### 8:15 OPENING REMARKS

- 8:20 Kayla Calhoun, Brenda Kirkland, Darrel Schmitz, and James May:** Analysis of Parent Source Material of Calcium Bentonite in Smith County, Mississippi
- 8:45 Samantha Leone and Timothy J. Bennett:** The Depositional Environment of the Eocene Singer Sand in Southwestern Beauregard Parish, Louisiana
- 9:10 Keith McVey:** Depositional Model for the Middle Eocene Oberlin Sand in Northwest Oberlin Field and Adjacent Areas, Allen Parish, Louisiana: A Well Log and Seismic Analysis
- 9:35 BREAK**
- 10:00 Frank S. Vincent:** Shallow Oil “Re-Discovery” at Washington Field: New Life from Abandoned, Thin, Multi-Pay, Mid-Frio Zones
- 10:25 Timothy J. Bennett:** Seismic Amplitude Driven Marine Deltaic Facies Exploration—Examples of Stratigraphic Depositional Analogs in Southwestern Louisiana
- 10:50 Humberto Torres-Sastré, Paul Weimer, and Renaud Bouroullec:** The Blasillo Field (upper Miocene), Salina del Istmo Basin, Southeastern Mexico: Part 1, Regional Setting and Petroleum Geology

### TECHNOLOGY • James Crane and Tim Duex, Co-Chairs

#### 8:15 OPENING REMARKS

- 8:20 Kathy S. Haggard, Les R. Denham, and H. Roice Nelson, Jr.:** Aquifers, Faults, Subsidence, and Lightning Databases
- 9:10 John M. Robinson and Bob Van Nieuwenhuise:** Log Resistivity Measuring Devices Compared to S-waves from a Vertical-Force Source
- 9:35 BREAK**
- 10:00 S. Nagihara, C. H. Christie, and M. Richards:** A Comparison of Methodologies for Obtaining Geothermal Gradients from Bottomhole Temperature Measurements: An Example from the East Cameron and West Cameron Federal Lease Areas, Gulf of Mexico
- 10:25 Matthew Wehner, Rand Gardner, Guangjian Xu, Michael C. Pope, T. Scott Staerker, and Arthur D. Donovan:** The Eagle Ford Group and Austin Chalk Correlated into Big Bend National Park, Brewster County, Texas
- 10:50 William R. Finley:** The Past and Present Role of the Geoscientist

### DEEPWATER / TURBIDITES (Part 3) • Erik Scott and Allan Brown, Co-Chairs

#### 8:15 OPENING REMARKS

- 8:20 Craig S. Fulthorpe, William E. Galloway, John W. Snedden, Patricia E. Ganey-Curry, and Timothy L. Whiteaker:** New Insights into Cenozoic Depositional Systems of the Gulf of Mexico Basin
- 8:45 C. H. Nelson, C. Goldfinger, J. Gutierrez-Pastor, and J. E. Damuth:** Seismo-Turbidites: Implications for Active Tectonic Margin Stratigraphy, Lithology, and Petroleum Reservoirs
- 9:10 Erik Scott, Richard Denne, James Kaiser, and David Eickhoff:** Impact on Sedimentation into the North-Central Deepwater Gulf of Mexico as a Result of the Chixculub Event
- 9:35 BREAK**

**10:00 Hugo Garcia and Tom Wooltorton:** Detailed Interpretation of a Channel System using Geological Expression Workflows: A Case Study from the Taranaki Basin, New Zealand

**10:25 Rick Schrynemeekers:** Minimizing Offshore Exploration Risks by Evaluating the Charge of Subsea Structures

**10:50 Anish Kumar, Robert J. Laronga, George R. Kear, and Wesley Cantwell:** New High-Resolution Oil-Base Mud Borehole Imaging for Improved Interpretation of Deepwater Sediments

### **ENVIRONMENTAL (Part 3) • Julia Battle and Bill Schramm, Co-Chairs**

**8:15 OPENING REMARKS**

**8:20 Steven C. Young:** Hydrogeochemical Evaluation of the Texas Gulf Coast Aquifer System and Implication for Developing Groundwater Availability Models

**8:45 Malcolm B. Hart, Andrew D. Leighton, Christopher W. Smart, Laura R. Pettit, Iba N. Medina-Sánchez, Peter J. Harries, Andrés L. Cárdenas, Jason M. Hall-Spencer, and Rosa Maria Prol-Ledesma:** Ocean Acidification in Modern Seas and its Recognition in the Geological Record: The Cretaceous/Paleogene boundary in Texas and Alabama

**9:10 Bruce K. Darling:** Stable Isotope Forensics as a Means of Differentiating between Thermogenic and Biogenic Gases in the Wilcox Aquifer, Haynesville Shale Trend, Caddo Parish, Louisiana

### **RESOURCE PLAYS (Part 1) • Brian Lock, Chair**

**10:00 Arthur E. Berman:** Reflections on a Decade of U.S. Shale Plays

**10:50 R. G. Loucks and R. M. Reed:** Scanning Electron Microscope Petrographic Evidence for Distinguishing In-Place Kerogen/Bitumen/Pyrobitumen Organic Matter Pores from Migrated Bitumen/Pyrobitumen Organic Matter Pores in Mudrock Reservoirs

### **Tuesday PM**

### **CONVENTIONAL ONSHORE (Part 3) • Tom Ewing and Frank Vincent, Co-Chairs**

**1:10 OPENING REMARKS**

**1:15 Humberto Torres-Sastré, Paul Weimer, and Renaud Bouroullec:** The Blasillo Field (upper Miocene), Salina del Istmo Basin, Southeastern Mexico: Part 2, Reservoir Architecture

**1:40 Timothy J. Bennett:** Foundered Shelf Edges—Seismic Expression of a Frio Example, Louisiana

**2:05 Hongliu Zeng, William A. Ambrose, Zhijun Yin, and Wenlong Xu:** Shale Tectonics Controlled Depositional History, Eocene Wilcox Group, Central South Texas Coast

**2:30 Martell A. Strong and Gary L. Kinsland:** Chicxulub Impact Tsunami Deposits at the K-Pg Boundary in Northern Louisiana?

### **ETHICS • Rusty Riese and Pete Rose, Co-Chairs**

**1:10 OPENING REMARKS**

**1:15 Peter R. Rose:** Objective Overview of Global Climate Change in 2015: A Geological Perspective

**2:05 George Losonsky and William H. Schramm:** Who's Protecting Whom?—Resolving Environmental Conflicts with Common Ethical Guidelines

**2:30 BREAK**

**2:40 Don Clarke:** Hydraulic Fracturing and Earthquakes: Ethically, How Do We Move Forward, and Do the Right Thing?

**3:05 Matthew R. Cowan:** Environmental Ethics and Ethics of Environmental Geoscientists

**3:30 Glenn R. Lowenstein:** The Psychology, Religion, and Philosophy of Ethics

**3:55 W. C. Rusty Riese:** Climate Change: Facts and Fictions



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### **SALT TECTONICS • Carl Fiduk and Rachelle Kernen, Co-Chairs**

#### **1:10 OPENING REMARKS**

**1:40 Robert Woock:** Interpretation Visualization in the Petroleum Industry

**2:05 J. Carl Fiduk, Marianne Clippard, Omoyele Ajose, Sarah Power, Raymond C. Martin Jr., Vivian Robertson, Mustafa Karer, Lynn Rodriguez, Ilyas Najmuddin, and Dan Fernandez:** Transport and Deformation of Mesozoic Carbonate Rafts in the Northern Gulf of Mexico

#### **2:30 BREAK**

**2:40 Angela Pell and Jeffrey A. Nunn:** Evolution of an Allochthonous Salt System, Southern Mars-Ursa Basin, Northern Gulf of Mexico

**3:05 Randy Broussard and Abu K. M. Sarwar:** A Palinspastic Restoration for the Evolution of the Green Knoll Salt Dome in the Gulf of Mexico

**3:30 Leslie A. Nemazi and William W. Sager:** Salts, Faults, and Gas in the Lower Texas Slope, Northwestern Gulf of Mexico, from 2D Multichannel Seismic Data

### **RESOURCE PLAYS (Part 2) • Brian Lock, Chair**

#### **1:10 OPENING REMARKS**

**1:15 Brian E. Lock:** The Eagle Ford Formation in Outcrop, West Texas: Depositional and Diagenetic Trends in the Transgressive Systems Tract

**1:40 Hunter Berch and Jeffrey A. Nunn:** Potential unconventional production in the Tuscaloosa Marine Shale Play from thermal modeling and log overlay analysis

**2:05 John E. Allen, Jr., Maurice A. Meylan, and Franklin T. Heitmuller:** Determining Hydrocarbon Distribution Using Resistivity, Tuscaloosa Marine Shale, Southwestern Mississippi

#### **2:30 BREAK**

**2:40 Alan F. Simonis, III:** Burial History and Thermal Maturity of the Chattanooga Shale, Northwestern Alabama

**3:05 Richard L. Adams, John P. Carr, and John A. Ward:** The Lower Woodbine Organic Shale of Burleson and Brazos Counties, Texas: Anatomy of a New "Old" Play

**3:30 Michael Alexander:** A New Look at Maverick Basin Tectonics

### **DEEPWATER / TURBIDITES (Part 4) • Erik Scott and Allan Brown, Co-Chairs**

#### **1:10 OPENING REMARKS**

**1:15 Harry N. Gardea, Raden D. Ramadhan, and Gemi P. Tiara:** Facies Analysis Based on Outcrops and Petrographic Study on Turbidite Deposits of the Cinambo-Halang Formation, Bogor Zone, West Java, Indonesia: Providing a Better Understanding of the Bouma Sequence

## **POSTER SESSIONS (Sponsorship Available)**

### **SESSION 1 • 6:00 pm–8:00 pm, Sun., Oct. 5 & 8:30 am–11:30 am, Mon., Oct. 6 • Travis Helms, Chair**

**I. J. Aluka:** Application of Research Techniques for Exploration of Unconventional Resources Plays to Increase Diversity in Geosciences Program

**A. Caroline Bovay, John W. Snedden, Ronald J. Steel, and Patricia Ganey-Curry:** New Models of Valanginian Source-to-Sink Pathways in the Eastern Gulf of Mexico

**Charles Chaisson and Gary L. Kinsland:** Investigation of the Lower Wilcox Group in parts of Avoyelles, Rapides, Grant, La Salle, Catahoula, and Concordia Parishes, Louisiana for Coal Distribution

**Jeff Cullen:** Sedimentology and Depositional History of the Riley Formation near Pontotoc, Texas, in the Northwestern Llano Uplift

**Dallas Dunlap:** High-resolution 3D Imaging of Quaternary Channelization, Offshore San Luis Pass, Texas

**Catherine B. Enomoto:** Well Log and 2D Seismic Data Character of the Wilcox Group in South-Central Louisiana

**Lloyd N. Glawe and Dennis E. Bell:** A Substitute Reference Section for the Wilcox Group (Paleocene-Eocene) from Northwestern Louisiana

**Jeffrey S. Hanor and R. Stephanie Bruno:** Dissolution of Salt and Perturbation of Subsurface Temperatures by Salinity-Driven Free Convection at the Bay Marchand Field, Offshore Louisiana

**David T. King, Jr. and Lucille W. Petruny:** Stratigraphy of the Barton Creek Formation, Corozal Basin, Northern Belize

**Anish Kumar, Robert J. Laronga, George R. Kear, and Wesley Cantwell:** New High-Resolution Oil-Base Mud Borehole Imaging for Improved Interpretation of Deepwater Sediments

**Samantha Leone and Timothy J. Bennett:** Study of a Salt Dome Associated Field in Southern Louisiana

**Arthur S. Waterman and Richard H. Fillon:** New Biostratigraphic and Paleoecological Strategies for Defining and Identifying the Basinward "Edges" of Ancient Continental Shelf Systems

**SESSION 2 • 2:30 pm–6:00 pm, Mon., Oct. 6 & 8:30 am–11:30 am, Tues., Oct. 7 • Travis Helms, Chair**

**Sean Comiskey, Durga D. Poudel, Timothy W. Duex, and Carl Richter:** Variation in Instream Water Quality and Magnetic Susceptibility across the Coulee Baton Microwatershed in Southwestern Louisiana

**Daniel Fields and Yuehan Lu:** Laboratory Microcosm Incubations of Macondo Oil-Derived Hydrocarbons in Alabama Salt Marsh Sediments and Water

**Nicholas D. Geyer and David M. Borrok:** Inorganic Geochemistry of Shale Source Rocks

**Chacko J. John, Brian J. Harder, and Reed Bourgeois:** Developing the Untapped Potential of Geopressed-Geothermal Energy Resources in the Gulf Coast

**L. Riley Milner and Chacko J. John:** Potential for Economic Development of Silica Sand Deposits in Louisiana for Use as Proppant in Hydraulic Fracking

**Keith D. Moore and Durga D. Poudel:** Hydrogeology and Surface Water Quality in Bayou Chene and Lacassine Bayou in Southwestern Louisiana

**Oya Ak:** The Effect of the Regional Tectonism to the Oil Productivity in the Southwest Texas

**Christian J. Monlezun, Whitney P. Broussard III, and David M. Borrok:** Integrated Geospatial and Chemical Analysis of Storm Water Drainage

**H. H. Roberts, J. M. Coleman, and H. J. Walker:** Coastal Studies Institute: A Science Contributor for 60 Years

**Lauren Stiles, Carl Richter, and William H. Schramm:** Magnetic Susceptibility of Soils in Baton Rouge, Louisiana: A Proxy for the Anthropogenic Impact on the Environment

**Rebecca Thompson and Jenneke Visser:** Effects of Nutria (*Myocastor coypus*) on Land Change within Marshes across Coastal Louisiana, USA

**Natalie Whitcomb:** The Rain Garden Project: Place-Based Education, Service Learning, and Scientific Literacy



## Short Course Sponsorship is Available

### **COURSE #1: Imperial Barrel Award Competition Training (Students Only)**

**Instructors:** Dr. Steven Bloemendaal and Dr. Larry Garmezy, Global Geological Advisors/Prospect Maturation Experts, Shell Exploration and Production Co.

8:00 am–5:00 pm • Saturday, Oct. 4

\$25 per student (*cost includes refreshments, lunch, and all course materials*)

Max. 25 students (open to students only)

This one-day short course is designed to introduce the participant to the fundamentals of basin analysis, the evaluation of petroleum systems, and quantitative prospect assessment (risk and volumes). Following brief lectures, the students will work in teams to evaluate, delineate, and describe the critical elements of a working hydrocarbon province. You will learn about the variety of maps you need to produce for an evaluation, how to build play element maps on a specific reservoir interval, summary play maps that describe how the “play” works, and where the sweet-spots are located. These products are the foundation of all successful hydrocarbon evaluations. This is followed by a hands-on suite of exercises which emphasize practical, simple principles for carrying out a quantitative prospect assessment. Lunch will be provided.

### **COURSE #2: Risk Evaluation and Corrective Action Program (RECAP)**

**Instructor:** Dr. June Sutherlin, Toxicologist, Louisiana Department of Environmental Quality

8:00 am–5:00 pm • Saturday, Oct. 4

\$100 per person or \$25 for students (limited to 5 students at the discounted price; subsequent student registrants will be waitlisted) (*cost includes refreshments, lunch, and all course materials*)

Max. 30 participants

The Risk Evaluation Corrective Action Program course will provide the regulated community, consultants, educators, and government employees a detailed overview of the regulations that set forth the procedures, approaches to, and calculations for managing exposure risk at contaminated sites. The class will explain the concepts behind the Screening Option and Management Option 1 and will expand on these concepts and delve into site specific calculations for MO–2, MO–3, toxicity, and ecological risk.

### **COURSE #3: Seismic Amplitude Interpretation**

**Instructor:** Dr. Fred Hilterman, Chief Scientist, Geokinetics, and Distinguished Research Professor, Univ. of Houston

8:00 am–4:00 pm • Sunday, Oct. 5

\$150 per person or \$25 for students (limited to 5 students at the discounted price; subsequent student registrants will be waitlisted) (*cost includes refreshments, lunch, and all course materials*)

Max. 30 participants

This course is intended for geologists, geophysicists, and engineers who integrate and/or interpret seismic data as part of their workflow to characterize a reservoir. In particular, the course will assist geoscientists who need to identify a reservoir’s lithology, pore-fluid, and net-to-gross using seismic amplitude. Upon course completion, participants should be able to select the appropriate techniques for pore-fluid and lithology prediction from seismic data. As a metric to the success of the learning objectives, a checklist for a reservoir-characterization study will be presented to the participants for evaluation and future application.

### **COURSE #4: Introduction to Reservoir Fluid PVT Analysis for Geologists**

**Instructor:** Toddy Guidry, Senior Technical Advisor, Reservoir Services, Core Laboratories

8:00 am–12:00 pm • Sunday, Oct. 5

\$50 per person or \$25 for students (limited to 5 students at the discounted price; subsequent student registrants will be waitlisted) (*cost includes refreshments and all course materials*)

Max. 30 participants

Collection of good, representative reservoir fluid samples is critical to the effective design and operation of any development project. The decision to build and deploy production facilities exposes producers to perhaps several billion dollars of investment risk, and a solid understanding of formation fluids right after discovery plays an essential part in mitigating that risk. Whether the formation fluids come from wireline formation test tool samples from a subsalt reservoir at 20,000 ft in 7000 ft of water in the deepwater Gulf of Mexico or from surface separator samples from Duval County, Texas, fluid analysis provides the information necessary to plan more efficient development of assets.



**COURSE #5: Geologic Interpretation of Deepwater Environments on Seismic Data**

**Instructor:** Dr. Erik Scott, Stratigraphy Advisor, Talisman Energy USA, Inc.

8:00 am–4:00 pm • Sunday, Oct. 5

\$150 per person or \$25 for students (limited to 12 students at the discounted price; subsequent student registrants will be waitlisted) (*cost includes refreshments, lunch, and all course materials*)

Max. 30 participants

This one-day workshop will cover how to build sub-regional structural and stratigraphic frameworks of deepwater settings from seismic data. Through interpretation of 2D seismic profiles we will reconstruct basin stratigraphic and structural history and discuss implications for petroleum systems and prospectivity. Participants will gain an understanding of the structural and stratigraphic components of deepwater settings as expressed on seismic data and the techniques for evaluating them.

**COURSE #6: Modern Turbidite Systems**

**Instructor:** Dr. Hans Nelson, Visiting Professor, Instituto Andaluz de Ciencias de la Tierra, CSIC, Granada, Spain

8:00 am–4:00 pm • Sunday, Oct. 5

\$150 per person or \$25 for students (limited to 5 students at the discounted price; subsequent student registrants will be waitlisted) (*cost includes refreshments, lunch, and all course materials*)

Max. 30 participants

This course is intended for exploration and production geologists, geophysicists, and managers who either need an introduction to worldwide deepwater clastic depositional systems or want to improve further their understanding, interpretation skills, and predictive ability for exploration and development of petroleum plays in turbidite systems. Our understanding of turbidite systems has advanced significantly in recent years, and this course will help industry geoscientists understand and apply the newest concepts, models, and techniques. New and emerging studies of turbidite, mass transport deposits, and hybrid event beds will be presented with emphasis on relevance to Gulf of Mexico Paleogene plays.



## Field Trip Sponsorship is Available

### TRIP #1: Wax Lake Delta

**Instructor:** Dr. Harry H. Roberts, Director, Coastal Studies Institute, Louisiana State University  
8:30 am–5:00 pm • Saturday, Oct. 4 • departure from parking lot of Hilton Garden Inn (2350 W. Congress St.)  
\$255 per person (*cost includes bus transportation to and from Wax Lake area, boat transportation in the field with boat captains and field technicians, lunch and refreshments, and guidebook*)  
Max. 28 participants

The Wax Lake and Atchafalaya deltas represent the embryonic stages of a new Mississippi River delta complex, adding to the previous five delta complexes that have formed Louisiana's coastal plain. Historical accounts document that the Atchafalaya River has been a distributary of the Mississippi since the 1500s. It was evident by the mid-1900s that the Atchafalaya River was steadily capturing more and more discharge from the Mississippi. In 1963, a control structure was completed by the U.S. Army Corps of Engineers at Old River, the confluence of the two rivers. This structure limits flow down the Atchafalaya River to about 30% of the Mississippi discharge. Following the enormous flood of 1973 the Old River Control Structure was almost lost. This same flood caused both the Atchafalaya and Wax Lake deltas to evolve from being subaqueous features to subaerial forms.



This field trip will offer the opportunity to learn about the Wax Lake Delta (unmodified by human activities), its general evolution, sedimentary architecture, and how it fits into the larger framework of the Mississippi River Delta. An orientation lecture at the Patterson, LA, boat launch will discuss the overall setting for Atchafalaya–Wax Lake deltas, including the precursor filling of Atchafalaya Basin. We will then travel by boat to different deltaic environments, and concentrate on the processes of formation and sedimentary architecture of the Wax Lake Delta. We will collect a vibracore from a representative lobe of the delta and use it to discuss sedimentary facies, facies successions, and potential reservoir characteristics. In recent years, the Wax Lake Delta has been used as a model for large-scale river diversions, our best hope for offsetting Louisiana's coastal land loss. The trip should be informative for geoscientists working in the oil and gas industry as well as geologists, biologists, engineers, and managers involved in solving coastal problems.

### TRIP #2: Geomorphology and Hydrogeology of the Lafayette Area

**Instructors:** Dr. Timothy W. Duex and Dr. Gary L. Kinsland, Geosciences Faculty, University of Louisiana at Lafayette  
8:00 am–5:00 pm • Sunday, Oct. 5 • departure from parking lot of Hilton Garden Inn (2350 W. Congress St.)  
\$65 per person (*cost includes transportation, lunch and refreshments, and guidebook*)  
Max. 18 participants

The Lafayette area is a moderate size metropolitan area that is experiencing relatively rapid growth. As the region grows, it faces numerous issues that include: (1) active floodplains; (2) bidirectional flood flow in Bayou Vermilion; (3) drainage influenced by the topography of (a) faults associated with a state-spanning fault system, (b) Pleistocene Mississippi River meanders, and (c) Pleistocene Red River distributary channels; (4) a perched water table within Quaternary loess; and (5) concerns about ground water supply and pollution in the Chicot Aquifer. Policy makers and geoscientists have become more aware of these interactions as municipalities and businesses have created more impervious surfaces with buildings, roadways, parking lots, “slab-constructed” houses, and “improved” concrete-lined coulees that also hasten drainage. This trip will look at a variety of features using aerial images, immersive 3D, and field stops, and relate them to urban and suburban development and concomitant effects.

### TRIP #3: The Use of Louisiana Salt Domes and Associated Geological Difficulties— Exploration, Production, and Storage

**Instructor:** William H. Schramm, Geologist Supervisor, Louisiana Department of Environmental Quality  
7:00 am–3:00 pm • Sunday, Oct. 5 • departure from parking lot of Hilton Garden Inn (2350 W. Congress St.)  
\$150 per person (*cost includes transportation, lunch, and guidebook*)  
Max. 14 participants

Louisiana salt domes have been exploited for well over 150 years. Originally used for salt production, the later discovery and development of oil and gas resources encouraged the geologic study of the formation of intrusive salt bodies. Many exploration wells, seismic studies, gravity surveys, and mining activities have provided a detailed 3D conceptualization of these salt bodies. Brine production for chlorine and caustic supplies for the chemical industry as well as salt mining for consumer use and public safety in road deicing are a few of the most prominent uses. More recent exploitation of salt domes has made use of existing and specially designed caverns for storage of a multitude of products, mainly related to the oil and gas and chemical industries. Since



caverns were brought into use in the mid-1900s, they have experienced many instances of structural, mechanical, or geologic failure. People have lost their lives and livelihoods, industries have lost their products and business, and the nation has lost natural resources and societal use of the lands.

This field trip will showcase three examples where loss of the caverns has resulted in extreme societal, resource, and financial loss. We will discuss the geological setting, uses of the location, events leading up to the loss of use, and resultant effect impacting the local people. The first stop is Lake Peigneur/Jefferson Island where petroleum exploration impacted the underground salt mining operation causing the loss of the entire mine,

fortunately with no loss of life. The second stop is Weeks Island where the Federal government established a Strategic Petroleum Reserve. A sinkhole developed from natural processes that threatened the security and integrity of the SPR. The entire project had to be abandoned at a large cost, but without the loss of lives or resources. The final stop is Bayou Corne where a cavern used for brine production failed due to poor understanding of geology and site location. Local residents have suffered substantial loss in use of property and industry has borne significant financial loss trying to contain the surface impact from the development of the sinkhole. Again fortunately, there has been no loss of life.



## Special Thanks to our Diamond Sponsors



***Convention Giveaway &  
YP/Student Reception***



***2014 GCAGS Journal***



**FREEPORT-McMoRAN  
OIL & GAS**

***2014 GCAGS Transactions &  
Gulf of Mexico Educational Forum***

The student fee includes the Opening Session, Icebreaker, Exhibition, all technical sessions, all coffee breaks, Presidents' Reception, Tuesday's "Walk & Talk" lunch, and CD-ROM of the 2014 *GCAGS Transactions*.

We offer a special registration fee (only \$25) to facilitate student participation. Students may also register as a Student Volunteer, and if selected as a volunteer will receive a \$25 voucher for purchases at the GCAGS bookstore. Students attending short courses qualify for significantly discounted fees—discounted pricing however is limited (25 students for course #1; 5 students for courses #2, #3, #4, and #6; and 12 students for course #5; see pages 22–23 for short course details). Student registrants for short courses after the discounted fee limit is reached will be waitlisted.

In addition, the following events are presented to stimulate student interests in geosciences.

### **IMPERIAL BARREL AWARD COMPETITION TRAINING (Students Only)**

8:00 am–4:00 pm • Saturday, Oct. 4

\$25 per student (*cost includes refreshments, lunch, and all course materials*)

Max. 25 students (open to students only)

This one-day workshop provides an introduction to petroleum systems and is the foundation for graduate students in petroleum geoscience, who are interested in participating in AAPG's Imperial Barrel Award (IBA) Competition. The IBA competition is a global exploration geosciences project focused on the assessment of the petroleum potential within a basin. Teams are provided with a complete dataset, and have 8 weeks to complete their assessment of the petroleum prospects of a part of the basin, before presenting their results to a panel of judges. Of note, teams representing GCAGS have won 3 of the last 4 AAPG Global IBA competitions. Additional course details can be found on page 22.

### **YOUNG PROFESSIONALS AND STUDENTS' MEET & GREET (Sponsored by Chevron)**

4:00 pm–5:00 pm • Sunday, Oct. 5

In addition to all young professionals and students, we strongly encourage all interested professionals to attend this function. This is a great opportunity for the new and soon to be professionals to network with one another and to interact with seasoned industry veterans. Drinks will be available, and following the reception all are encouraged to attend the Opening Session and Awards Ceremony.



GCAGS and the Lafayette 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.

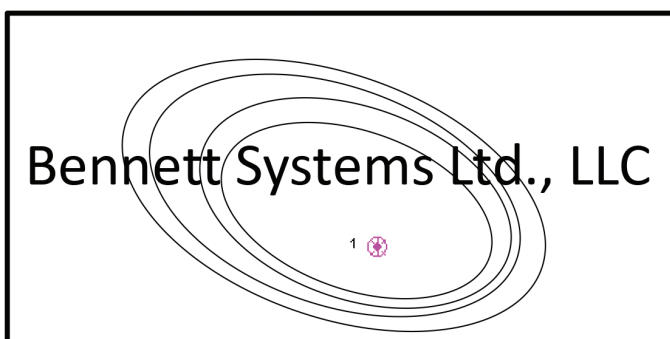
### **MORE! ROCKS IN YOUR HEAD!—A Workshop for Teaching Earth Science (3–12 Teachers Only)** **(Sponsored by Hydrate Energy International and Bennett Systems)**

8:30 am–3:30 pm • Saturday, Oct. 4

\$20 per teacher (*cost includes refreshments, lunch, and all course materials*)

Max. 45 teachers (open to teachers only)

This highly-rated one-day workshop provides instruction and materials for teaching earth science. Participants receive “More! Rocks in Your Head” Classroom-Ready Manual, Great Rock and Mineral Teaching Samples, “ENERGIZE Your Future” Career Guide Book, “Oil and Natural Gas” Hard-Cover Book, “Hunt for Fossil Fuels” oil exploration game, and Certificate. For more information, please contact Craig Glassinger at [mglassinger@yahoo.com](mailto:mglassinger@yahoo.com).



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**WTC, Inc.**

Welcome to Lafayette and the 2014 GCAGS Convention. We hope you will take some time to join us in the Hospitality Area located in the Fireplace Lobby at the Hilton Garden Inn (2350 W. Congress St.).

The Guest/Spouse fee includes the Opening Session, Icebreaker, Exhibition, all coffee breaks, Presidents' Reception, "Walk & Talk" lunch, and Hospitality Area from Sunday, Oct. 5, through Tuesday, Oct. 7.

Morning and afternoon refreshments will be available daily. Also, our hostesses will be on hand to answer all of your questions about local restaurants and shopping.

**Hospitality Area at the Hilton Garden Inn–Fireplace Lobby: Take the time to have some refreshments with friends while waiting for tours to depart or arrive. Entrance with name badge only.**

Sunday, Oct. 5	2:00 pm–4:00 pm
Monday, Oct. 6	7:30 am–9:30 am & 4:00 pm–6:00 pm
Tuesday, Oct. 7	7:30 am–9:30 am

Note: All tours will depart from the Hilton Garden Inn. Please meet in the Main Lobby 15 min. prior to departure time.

## OPTIONAL SPOUSE AND GUEST ACTIVITIES

### Tour of Iberia Parish Gardens, Tabasco Factory, and Antebellum Home

Monday, Oct. 6 • 9:00 am–4:30 pm • \$75 per person (not including lunch cost at the Jefferson Café) • Min. 14–Max. 50

Come explore some of what south Louisiana has to offer! Visit our unique antebellum homes, tropical gardens, and the world renowned Tabasco pepper sauce factory. Avery Island and Jefferson Island are actually two salt domes creating "islands" of high ground that rise above the coastal marshes and sugar cane fields of Iberia Parish. The Shadows on the Teche antebellum home is in the historic district of downtown New Iberia overlooking the beautiful Bayou Teche.



### Cajun Food Tours

Tuesday, Oct. 7 • 10:00 am–2:00 pm • \$49 per person • Max. 14

Experience the flavor of southern Louisiana and *laissez les bon temps rouler* (let the good times roll) on this fun and tasty 4 hour adventure! You will learn about the history and culture of the tastiest town in the south on this "gastro-tour." This fun, casual tour includes six tasting stops at local favorites, where you'll taste many Cajun originals like boudin, étouffée, gumbo, fried seafood, cracklins, and more!



**SAI** Geoconsulting, Inc.

Shuttle buses run between all hotels and Cajundome Convention Center.  
Book online at <http://www.gcags2014.com/accommodations.html>!

## HILTON GARDEN INN

2350 West Congress St., Lafayette, LA 70506 • 337-291-1977 (refer to group code GEO14 for discounted rate)

**RATES:** \$139.00 King or Double/Double and \$159.00 Suites

Located right next to both the Cajundome and the University of Louisiana at Lafayette, the Hilton Garden Inn sits on university land and is surrounded by their research park and athletic facilities. Pick up some last-minute shopping at the 24-hour Pavilion Pantry®, pack light thanks to the hotel's laundry service, and order some delicious, freshly prepared room service.

Corporate guests will keep on top of work with the full range of business amenities provided. Use the secure remote printing to the 24-hour business center with AV equipment rental, express mail and fax services provided to assist you. Host an event in a fully equipped meeting room and stay in touch with free WiFi in every guest room.

Keep yourself fit at the complimentary fitness center and enjoy an invigorating swim in the heated indoor pool. Enjoy a tasty array of American classics at the Great American Grill®, serving up breakfast, lunch, and dinner. Private pre-paid airport transfers are available through ALG Executive Charters & Services (337-233-3460).

A special group rate of \$139 per night for a single room, \$159 for a suite, has been negotiated for GCAGS. The rate does not include taxes. **DEADLINE IS SEPTEMBER 20, 2014.** After that date unsold rooms will be released back to the hotel for sale, so book early! Go to the convention's "Accommodations" page at [www.gcags2014.com](http://www.gcags2014.com) and follow the special link to make your reservation on line, or call the hotel's front desk at 337-291-1977 and refer to the group code GEO14 for your discounted rate, or go to [http://hiltongardeninn.hilton.com/en/gi/groups/personalized/L/LFTCDGI-GEO14-20141003/index.jhtml?WT.mc\\_id=POG](http://hiltongardeninn.hilton.com/en/gi/groups/personalized/L/LFTCDGI-GEO14-20141003/index.jhtml?WT.mc_id=POG).

## HILTON LAFAYETTE (in process of being transitioned to DoubleTree by Hilton)

1521 W. Pinhook Rd., Lafayette, LA 70503 • 337-235-6111 (refer to group code GCA for discounted rate)

**RATES:** \$129 King or Double/Double

Hilton Lafayette is ideally located for exploring Lafayette's vibrant city center, and is situated minutes from downtown. All guest rooms and suites feature stylish decor with rich mahogany furniture and complimentary WiFi. Dine on traditional Cajun cuisine in the hotel's award-winning restaurant, Alexander's, and for a more lively dinner atmosphere, Maximilian's Lounge is just off the lobby. For airport transfers, please call the hotel upon arrival for the shuttle and for the return please contact the front desk to schedule.



The rate does not include taxes. **DEADLINE IS SEPTEMBER 21, 2014.** After that date unsold rooms will be released back to the hotel for sale, so book early! Go to the convention's "Accommodations" page at [www.gcags2014.com](http://www.gcags2014.com) and follow the special link to make your reservation on line, or call the hotel's front desk at 337-235-6111 and refer to the group code GCA for your discounted rate, or visit [http://www.hilton.com/en/hi/groups/personalized/L/LFTLHHF-GCA-20141003/index.jhtml?WT.mc\\_id=POG](http://www.hilton.com/en/hi/groups/personalized/L/LFTLHHF-GCA-20141003/index.jhtml?WT.mc_id=POG).

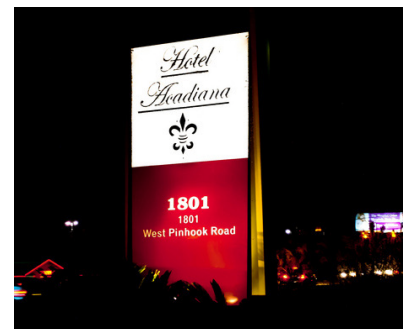
## HOTEL ACADIANA

1801 W. Pinhook Rd., Lafayette, LA 70508 • 337-233-8120 (refer to group code GCAGS for discounted rate)

**RATES:** \$99 King or Double/Double; \$109 Triple; \$119 Quad

The Hotel Acadiana offers full-service amenities in a friendly and regal setting. The property is conveniently located minutes from downtown, the Oil Center, the Cajundome, University of Louisiana at Lafayette, and area shopping and business centers. Rooms include complimentary WiFi, coffee makers and mini-refrigerators. For shuttle from the airport, pick up the Hotel Acadiana phone near baggage claim to contact hotel. For return, just let the front desk know of your return flight to get the airport transfer scheduled.

The rates do not include taxes. **DEADLINE IS SEPTEMBER 21, 2014.** After that date unsold rooms will be released back to the hotel for sale, so book early! Go to the convention's "Accommodations" page at [www.gcags2014.com](http://www.gcags2014.com) and follow the special link to make your reservation on line, or call the hotel's front desk at 337-233-8120 and refer to the group code GCAGS for your discounted rate, or visit <https://bookings.ihotelier.com/bookings.jsp?groupID=1168794&hotelID=77357>. This code or the group name must be mentioned in order to receive your special rate.



## Pre-Registration Early Discount Deadline: Aug. 17

There are three easy ways to register to **64<sup>th</sup> GCAGS Annual Convention**:

### 1. Register online (credit card is required)

Go to [www.gcags2014.com](http://www.gcags2014.com) and click on the "Register Now!" link on the homepage.

### 2. By mail (check or credit card; **IMPORTANT: checks may be drawn on U.S.-based banks only**)

Send your registration form and payment to:

2014 GCAGS Annual Convention

Attendee Interactive

2205 Warwick Way, Ste. 110

Marriottsville, MD 21104

Make checks payable to: GCAGS 2014

### 3. By fax (credit card only)

Fax your registration form, including credit card information, to 1-410-480-1892.

All registration, social-event, optional-tour, short-course and field-trip fees must be paid IN FULL at the time of the registration. All fax registrations not including credit-card information or mail-in registrations received without credit-card information or a signed check from a U.S. bank will be returned. If completing a hard-copy form, use one form per professional or student registrant. If registering a spouse or guest, be certain to provide the individual's name for the badge. **Professionals may not register as spouses or guests.** All speakers and poster presenters must be registered.

### Registration fees are as follow (all prices in USD):

Professional* through Aug. 17	\$195.00
Professional* after Aug. 17	\$295.00
Student (ID will be required on site)**	\$25.00
Spouse/Guest Name for badge (required)***	\$75.00
Exhibit Booth Worker	\$95.00
Icebreaker Only	\$60.00

\* Professional fee includes the Opening Session, Icebreaker, Exhibition, all technical sessions, all coffee breaks, Presidents' Reception, "Walk & Talk" lunch, and CD-ROM of 2014 *GCAGS Transactions*.

\*\* Student fee includes the Opening Session, Icebreaker, Exhibition, special student events (see page 26), all technical sessions, all coffee breaks, Presidents' Reception, "Walk & Talk" lunch, and CD-ROM of the 2014 *GCAGS Transactions*.

\*\*\* Spouse/Guest fee includes the Opening Session, Icebreaker, Exhibition, all coffee breaks, Presidents' Reception, "Walk & Talk" lunch, and Hospitality Room from Sunday, Oct. 5, through Tuesday, Oct. 7.

Pick up your badges and tickets to any optional events in the Exhibit Hall prefunction area anytime during the following hours:

Saturday, Oct. 4	3:00 pm–6:00 pm
Sunday, Oct. 5	7:00 am–8:00 pm
Monday, Oct. 6	7:00 am–6:00 pm
Tuesday, Oct. 7	7:00 am–12:00 pm



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## Registration Form

64<sup>th</sup> Annual Convention of the  
Gulf Coast Association of Geological Societies /  
Gulf Coast Section of SEPM, October 5-7, 2014  
**Survivor: The Gulf Coast**

Online Registration: [www.gcags2014.com](http://www.gcags2014.com)

GCAGS 2014 Registration, c/o Attendee Interactive, 2205 Warwick Way, Ste. 110, Marriontsville, MD 21104  
Fax: 1-410-480-1892 Email: [gcags@attendeeinteractive.com](mailto:gcags@attendeeinteractive.com)



First Name \_\_\_\_\_ Last Name \_\_\_\_\_ First Name for Badge \_\_\_\_\_  
 Company or Organization (exactly as wanted on name badge) \_\_\_\_\_ Position \_\_\_\_\_  
 Mailing Address \_\_\_\_\_  
 City \_\_\_\_\_ State/Country \_\_\_\_\_ Zip/Postal Code \_\_\_\_\_  
 Phone \_\_\_\_\_ Fax \_\_\_\_\_ E-mail (Required) \_\_\_\_\_

Would you like to be a Judge? Oral \_\_\_\_\_ Poster \_\_\_\_\_ Either \_\_\_\_\_ No \_\_\_\_\_  
 Do not share my contact information with 2014 GCAGS exhibitors.

By registering for the 2014 GCAGS Convention, I release and agree to indemnify the Gulf Coast Association of Geological Societies (GCAGS), the Gulf Coast Section of SEPM (GCSSSEPM), the Lafayette Geological Society (LGS), and their agents, officers, servants, and employees of each, from all liability for any loss, damage, or injury sustained by me while involved in any way with the 2014 GCAGS convention, except that each of GCAGS, GCSSSEPM, and LGS is not released from such liability to the extent the same is caused by its actual negligence or willful misconduct. By registering I acknowledge that I have read and understand and agree to this waiver and release. I further acknowledge that photographs may be taken of me during the convention, and by my attendance I am giving permission to the GCAGS and LGS to use my image in whatever way they may deem appropriate.

Owner/Partner/Officer \_\_\_\_\_ Geophysicist \_\_\_\_\_ Engineer \_\_\_\_\_  
 Manager \_\_\_\_\_ Independent/Consultant \_\_\_\_\_ Retired \_\_\_\_\_  
 Chief/Senior Geologist \_\_\_\_\_ Academic Instructor/Professor \_\_\_\_\_ Other \_\_\_\_\_  
 Geologist \_\_\_\_\_ Student \_\_\_\_\_

Payment Information: Check One  Check   
 Visa  MasterCard  American Express

Card Account # \_\_\_\_\_  
 Expiration Date (Month/Year) \_\_\_\_\_ CVW2 Credit Card \_\_\_\_\_ Security Code \_\_\_\_\_ Total Amt. \$ \_\_\_\_\_

Please print name as it appears on card \_\_\_\_\_

Authorized Signature \_\_\_\_\_

ADA or Dietary Special Needs (please specify) \_\_\_\_\_

For Hotel Information, Please Visit Our Website at [www.gcags2014.com](http://www.gcags2014.com).

- \* Please make all checks payable to: GCAGS 2014.
- \* Purchase orders will not be accepted. GCAGS does not invoice for convention.
- \* Checks must be drawn from a U.S. bank and in U.S. dollars ONLY.
- \* Credit cards are charged in U.S. dollars ONLY.

All registration, social event, optional tour, short course, and field trip fees must be paid IN FULL at the time of registration. All fax registrations not including credit card information or mail-in registrations received without credit card information or a signed check will be returned. If completing a printed form, use one form per professional or student registrant. If registering a spouse or guest, be certain to provide the individual's name for the badge. Professionals may not register as spouses or guests. All speakers and poster presenters must be registered. Changes to your registration such as adding a spouse or guest, events, short courses or field trips, and changing contact information may be made by sending an email to [sondra@gemworldvents.net](mailto:sondra@gemworldvents.net). Changes to your registration involving a refund (deleting events, short courses or field trips or cancelling outright) must be made in writing to [sondra@gemworldvents.net](mailto:sondra@gemworldvents.net). A fee of \$75 will be charged for all full cancellations. NO REFUNDS will be issued after September 15, 2014.

## Save Time—Register ONLINE! [www.gcags2014.com](http://www.gcags2014.com)

REGISTER ONLY ONE PROFESSIONAL OR STUDENT PER FORM\*

Fee Per Person \_\_\_\_\_ No. of Tickets/ Items \_\_\_\_\_ Total Cost \_\_\_\_\_  
 \*School-age children may register as students.  
 Everyone must be properly badged—NO exceptions.

GCAGS/GCSSEPM Professional Early Bird (by Aug. 17) (includes Icebreaker, all coffee breaks, Presidents' Reception, Tues. exhibit hall lunch, and CD-ROM of 2014 GCAGS Transactions) \_\_\_\_\_ \$195

GCAGS/GCSSEPM Professional (after Aug. 17) \_\_\_\_\_ \$295

Student (ID will be required on site) \_\_\_\_\_ \$25

Student Volunteer (ID will be required on site; registering in this category does NOT automatically make you a volunteer; you will be contacted by the Volunteers Chair; if selected as a volunteer you will receive a \$25 voucher for use at the GCAGS bookstore) \_\_\_\_\_ \$25

Spouse/Guest: Name for badge (required) \_\_\_\_\_ \$75

(NOTE: A guest can only register through a convention registrant and may not be a GCAGS or GCSSEPM member or in any way employed in the industry.)

Exhibit Booth Worker \_\_\_\_\_ \$95

Icebreaker ONLY, Sun., Oct. 5 \_\_\_\_\_ \$60

### GCAGS PUBLICATIONS

Hard Copy of 2014 GCAGS Transactions (to be picked up at the GCAGS Bookstore in the Exhibit Hall) \_\_\_\_\_ \$60

Hard Copy of 2014 GCAGS Transactions (to be shipped from GCAGS) \_\_\_\_\_ \$70

Hard Copy of 2014 GCAGS Journal, v. 3 (to be picked up at the GCAGS Bookstore in the Exhibit Hall) \_\_\_\_\_ \$15

Hard Copy of 2014 GCAGS Journal, v. 3 (to be shipped from GCAGS) \_\_\_\_\_ \$25

### SPECIAL EVENTS

All-Convention Luncheon, Mon., Oct. 6 \_\_\_\_\_ \$35

Science Museum Party, Mon., Oct. 6 (free to convention badge holders, but if you plan to attend, please "register" to assist our planning process) \_\_\_\_\_ FREE

YP Pub Crawl, Mon., Oct. 6 \_\_\_\_\_ \$35

Bouma Symposium Luncheon, Tues., Oct. 7 \_\_\_\_\_ \$35

Tour of Iberia Parish Gardens, Tabasco Factory, and Antebellum Home, Mon., Oct. 6 \_\_\_\_\_ \$75

Cajun Food Tours, Tues., Oct. 7 \_\_\_\_\_ \$49

### SPOUSE & GUEST ACTIVITIES

SC #1: Imperial Barrel Award Competition Training, Sat., Oct. 4 (Students ONLY) \_\_\_\_\_ \$25

SC #2: Risk Evaluation and Corrective Action Program (RECAP), Sat., Oct. 4 (Professional Registration) \_\_\_\_\_ \$100

SC #2: Risk Evaluation and Corrective Action Program (RECAP), Sat., Oct. 4 (Student Registration<sup>1</sup>) \_\_\_\_\_ \$25

SC #3: Seismic Amplitude Interpretation, Sun., Oct. 5 (Professional Registration) \_\_\_\_\_ \$150

SC #3: Seismic Amplitude Interpretation, Sun., Oct. 5 (Student Registration<sup>1</sup>) \_\_\_\_\_ \$25

SC #4: Introduction to Reservoir Fluid PVT Analysis for Geologists, Sun., Oct. 5 (Professional Registration) \_\_\_\_\_ \$50

SC #4: Introduction to Reservoir Fluid PVT Analysis for Geologists, Sun., Oct. 5 (Student Registration<sup>1</sup>) \_\_\_\_\_ \$25

SC #5: Geologic Interpretation of Deepwater Environments on Seismic Data, Sun., Oct. 5 (Professional Registration) \_\_\_\_\_ \$150

SC #5: Geologic Interpretation of Deepwater Environments on Seismic Data, Sun., Oct. 5 (Student Registration<sup>1</sup>) \_\_\_\_\_ \$25

SC #6: Modern Turbidite Systems, Sun., Oct. 5 (Professional Registration) \_\_\_\_\_ \$150

SC #6: Modern Turbidite Systems, Sun., Oct. 5 (Student Registration<sup>1</sup>) \_\_\_\_\_ \$25

<sup>1</sup>Limited to 5 students (12 students for SC #5) at discounted price; subsequent student registrants will be waitlisted.

### FIELD TRIPS

FT #1: Wax Lake Delta, Sat., Oct. 4 \_\_\_\_\_ \$255

FT #2: Geomorphology and Hydrogeology of the Lafayette Area, Sun., Oct. 5 \_\_\_\_\_ \$65

FT #3: The Use of Louisiana Salt Domes and Associated Geological Difficulties—Exploration, Production, and Storage, Sun., Oct. 5 \_\_\_\_\_ \$150

## GCAGS Officers

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Mary Broussard

Vice President (President-Elect)  
Charles Sternbach

Past-President  
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Kate Kipper

Treasurer  
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Craig Glassinger

Young Professionals  
Samantha Leone

Audiovisual/IT  
Dean Gresham





# CALL FOR PAPERS

**65<sup>th</sup> GCAGS Convention**  
**September 20–22, 2015**  
**George R. Brown Conv. Center**  
**Houston, Texas**



New Oil and Gas Discoveries  
Un-Conventional Plays  
Development Field Studies  
GOM Shelf and Onshore Plays  
Salt Tectonics and Traps  
Mexico and Caribbean Plays  
Geophysical Technology  
Gulf of Mexico Deepwater  
Environmental Geology  
Coastal Geology and Surface Impact  
Geology-Geophysics-Engineering  
Portfolio Management  
Climate/Public Awareness Issues

## To participate in the 2015 GCAGS Convention Oral and Poster presentations

An abstract of up to 250 words should be submitted no later than **December 13, 2014** to Technical Program Chair, Linda Sternbach ([linda.sternbach@gmail.com](mailto:linda.sternbach@gmail.com)).

After notification of acceptance on **January 20, 2015**, authors submit extended abstracts (1–2 pages) or full papers up to 12 pages to the *GCAGS Transactions* by **February 20, 2015** to the *GCAGS Transactions* Editor, Steve Levine.

Full instructions for manuscript submissions will be posted online at [www.gcags2015.com](http://www.gcags2015.com).

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## Publish your work in the upcoming *GCAGS Journal*!! (a new peer-reviewed journal of Gulf Coast Geoscience)

Instructions: An extended abstract of at least 600 words, including 1–2 representative figures, should be submitted by **December 2, 2014**, to the *GCAGS Journal* Editor, Barry Katz ([BarryKatz@chevron.com](mailto:BarryKatz@chevron.com)).

After acceptance, a full manuscript must be submitted by **March 24, 2015**.

Full instructions for manuscript submissions will be posted online at [www.gcags2015.com](http://www.gcags2015.com).

Convention presentations of *Journal* submissions are encouraged, but not required.



Gulf Coast Association of Geological Societies  
c/o UT BEG  
Box X, University Station  
Austin, TX 78713-8924



**October 5-7, 2014**  
**Lafayette, Louisiana**  
**[www.gcags2014.com](http://www.gcags2014.com)**

