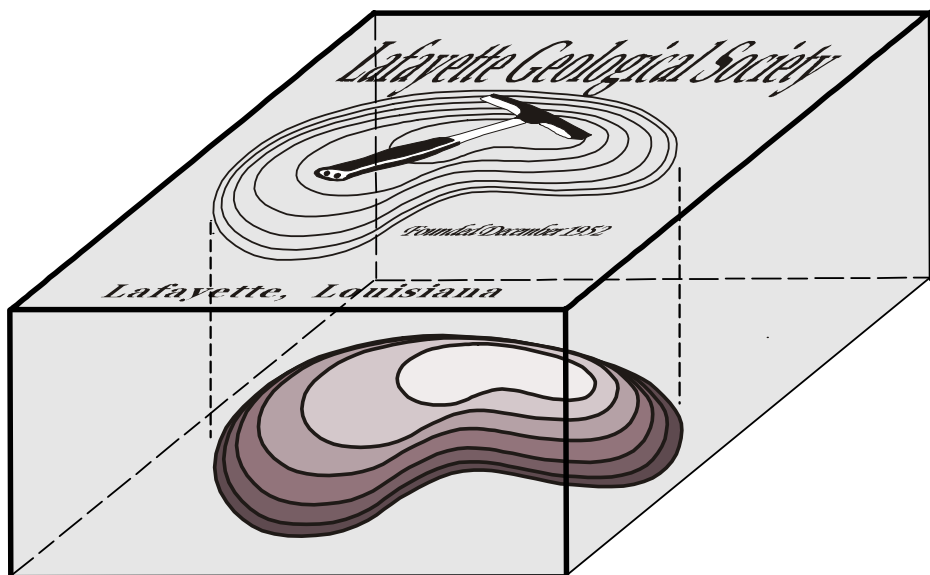


Lafayette Geological Society **BULLETIN**

Volume 59, No. 2

October 2014



LGS Luncheon Meeting
Wednesday, October 15, 2014
11:30 am – 1:00 pm
Lafayette Petroleum Club
Cost: \$20

Luncheon Presentation

“Habits of Successful Oil and Gas Finders”

Robert “Bob” Shoup
Certified Petroleum Geologist

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Back/Middle Row: Bill Finley, Barry Gidman, Samantha Leone, Craig Glassinger, and Joey Grimball

Not Pictured: James Willis and John Boggs

**LGS Luncheon Meeting
Wednesday, October 15, 2014
11:30 am to 1:00 pm
Lafayette Petroleum Club
Cost: \$20**

**“Habits of Successful
Oil and Gas Finders”**

***Robert “Bob” Shoup,
Certified Professional Geologist***

President's Column

Dear LGS Members,

I thoroughly enjoyed the 64th Annual Convention of the Gulf Coast Association of Geological Society and Gulf Coast Section of SEPM, hosted by our Lafayette Geological Society. The convention was held at the Cajundome Convention Center.

General Chair Mike Quinn and GCAGS President Mary Broussard did a magnificent job in bringing the convention to Lafayette. Kudos to the many society members that helped Mike and Mary put together a great program. The oral and poster sessions were informative and interesting. I heard praise for the short courses and field trips. A very special thank you is extended to the wonderful sponsors and vendors who financial made the convention possible. The social events were fun. Everyone should visit the Geology Museum—you will be proud.

I attended the GCAGS Board Meeting on Sunday. Mary Broussard handed over the gavel to the next GCAGS President Charles Sternbach who will preside over the 2015 convention in Houston, Texas, from September 20–22. Mark your calendars. Mary and Mike can now relax and reflect on a job well done.

Our speaker for the October luncheon will be Bob Shoup. He will present the habits of highly successful oil and gas finders. The talk should be of interest to all who are actively involved in the craft.

See you at the luncheon.

Craig Glassinger

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OCTOBER LUNCHEON PRESENTATION

Habits of Successful Oil and Gas Finders

Robert 'Bob' C. Shoup
Certified Petroleum Geologist



Abstract*

Our industry spends hundreds of millions of dollars a year drilling dry holes that were predictably dry holes. These wells were drilled on inaccurate interpretations and maps; and they were dry holes before they were spud! Do these sound like your wells? Most of us would say no, yet for over 85% of the industries geoscientists, they are.

Approximately 15% of the world's geoscientists are highly successful oil (and gas) finders, that being that they have exploration drilling success rates between 25 and 70%. Conversely, approximately 15% of the world's explorationists routinely drill dry holes. The remaining explorationists have exploration drilling success rates close to that of the industry average of 15 to 30%. What is it that sets the highly successful oil finders apart?

All oil finders seem to be creative and to have perseverance, but those traits alone do not make successful oil finders as there have been many 'creative' dry holes. Company studies combined with years of observation, have shown that the highly successful oil finders share 10 habits in their interpretation of the data and their portrayal of the structure in their maps. The focus of this talk is on those 10 habits, and how they contribute to an individual's or companies exploration and development success.

Habit 1: Successful oil finders ensure that their interpretations are geologically and geometrically valid. This may sound intuitive, and with workstations and 3D datasets, a habit that is no longer necessary. Unfortunately, we have seen, and continue to see, countless maps, even from 3D datasets that are geologically improbable, and many maps that are geometrically impossible.

*Abstract authored by Daniel J. Tearpock (deceased) and Robert Shoup.

Habit 2: Successful oil finders have a strong background in geology, and have a thorough knowledge of the tectonic and depositional environments for the area in which they are working. Workstations are doing to geologic skills what the calculator has done to math skills. Of the last 100 students in my class, only 11 have contoured a map, and less than 20 have made cross-sections.

Habit 3: Successful oil finders plan their time and their work in order to ensure accurate interpretations and maps. Rushed maps and interpretations are poor maps and interpretations. Poor maps and interpretations are a great recipe for drilling dry holes.

Habit 4: Successful oil finders use all of the data. Another intuitive habit, yet many interpreters have never talked to the reservoir engineer.

Habit 5: Successful oil finders ensure that their seismic and well correlations are accurate and loop-tied. Well log correlations are the foundation for all of our interpretations. Many interpreters do not correlate the entire well log using resistivity markers (see Habit 4). Many others do not loop tie their correlations as “strike lines are hard to interpret.”

Habit 6: Successful oil finders know which methods, tools, and techniques are needed to define and understand the subsurface. Do you use TVT as opposed to TVD? Do you calculate restored tops for faulted or ‘not-reached’ wells? Do you use the Wharton Method for mapping net pay? If not, you are not using Habit 6.

Habit 7: Successful oil finders map all relevant geological surfaces. Do you map fault surfaces? For thick reservoir sequences, do you map the top and base of the reservoir? If not, you are not mapping all relevant geological surfaces, and you are also most likely coming up with inaccurate, and quite possibly incorrect maps and reserve estimates.

Habit 8: Successful oil finders map multiple horizons. Do you map multiple horizons? Do you ensure that the fault traces migrate appropriately with depth? If not, you are increasing the possibility of drilling your wells in the fault gap.

Habit 9: Successful oil finders ensure that their cross sections are balanced. As mentioned before, many interpreters no longer make

(continued on page 18)

Thanks to Stratagraph for sponsoring student attendees at the October luncheon meeting.

Calendar of Upcoming Events

Oct. 15, 2014 — LGS: Lafayette Geological Society luncheon meeting, 11:30 am at the Petroleum Club in Lafayette — Bob Shoup, Certified Petroleum Geologist, will present “Habits of Successful Oil and Gas Finders.”

Oct. 12-18, 2014 — Earth Science Week: “Earth’s Connected Systems” — Please visit www.earthsciweek.org for more information.

Nov., 2014 — NOGS: New Orleans Geological Society luncheon meeting, 11:30 at the Holiday Inn, 330 Loyola Ave., New Orleans — no available speaker or topic information as of press time. Please visit www.nogs.com for updates.

Nov., 2014 — API: Acadiana Chapter of the American Petroleum Institute — no scheduled events as of press time. Please visit www.apiacadiana.com for updates.

Nov., 2014 — SGS: Southeastern Geological Society, New Orleans — No scheduled events as of press time. Please visit <http://sgs-neworleans.org/calendar.html> for potential updates.

Nov. 11, 2014 — SWLGS: Southwest Louisiana Geophysical Society, 11:30 am at the Petroleum Club in Lafayette — Speaker and topic not available as of press time. Please visit www.swlgs.org for updated information as the meeting date approaches.

Nov. 11, 2014 — SPE: Society of Petroleum Engineers Evangeline Section, 11:30 am at the Petroleum Club in Lafayette — Chris John, LMOGA, will present “Louisiana Mid-Continent Oil and Gas Association.” For more information, please visit <http://www.spe-laf.org/site.php>.

Nov. 12, 2014 — SIPES: Society of Independent Professional Earth Scientists luncheon meeting, 11:30 am at the Petroleum Club in Lafayette — no available speaker or topic information as of press time.

Nov. 13, 2014 — SPWLA: Society of Petrophysicists and Well Log Analysts luncheon meeting, 11:30 am at the Petroleum Club in Lafayette — Speaker and topic not available as of press time. Please visit <http://www.spwla.org/chapter/lafayette> as the meeting date approaches for more information.

Nov. 14, 2014 — BRGS: Baton Rouge Geological Society luncheon meeting, 11:30 am at Mike Anderson Seafood Restaurant, 1031 W. Lee Drive, Baton, Rouge, Louisiana — Speaker and topic not available as of press time. For more information, please visit www.brgs-la.org for more information as the meeting date approaches.

Nov. 19, 2014 — LGS: Lafayette Geological Society luncheon meeting, 11:30 am at the Petroleum Club in Lafayette — Speaker and topic not available as of press time. For more information, please visit <http://lafayettegeologicalsociety.org> as the meeting date approaches.



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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).

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.

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).

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.

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

GCAGS Convention returns to Houston in Sept. 2015

Call for Presentation and Posters ends Dec. 13, 2014

Linda Sternbach, Technical Chair

Contact: linda.sternbach@gmail.com 281-679-7333

The Houston Geological Society will host the 65th Gulf Coast Association of Geological Societies (GCAGS) at the George R. Brown Convention Center, September 19–22, 2015. The Gulf Coast Section of SEPM (GCSSEPM) plans to co-host the GCAGS 2015 convention. GCSSEPM will be organizing oral talks, posters, judging, and the GCSSEPM awards program.

The Houston 2015 GCAGS convention is opening up a “Call for Papers” and inviting geoscientists to submit a short 250 word abstract with title and authors by December 13, 2014. Submit a short word document (250 words) to Technical Program Chair Linda Sternbach at linda.sternbach@gmail.com, or check the convention webpage and blog, hosted by GCAGS Secretary Dianna Phu at www.gcagshouston.com (soon to be changed to www.gcags2015.com).

The session themes are: 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, Business Portfolio Management, and Climate/Public Awareness Issues.

The 65th Annual GCAGS convention will feature Gulf Coast area oil, gas, and environmental topics, with the intent that Gulf Coast geoscientists will expand their technical training, knowledge, and networking during the convention. The General Chair of the convention is Larry Bartell (Legends Exploration, ldbartell@legendsexpl.com). GCAGS President for the 2015 convention is Charles Sternbach (Star Creek Energy, carbodude@gmail.com). GCAGS Non-Technical Chair is Deborah Sacrey, HGS President-Elect. The Technical Program is coordinated by Linda Sternbach (Star Creek Energy) and Paul Basinski (Burgundy Exploration, pbasinski@comcast.com). Dianna Phu (dianna@exabyte.org) is both Secretary for the convention and publicity, website, and social media chair. Mike Erpenbeck is convention Treasurer.

The convention is proud to have the following hard working volunteers: Short Courses Chair Robert Pledger (rpledger@hotmail.com) and Field Trip Co-Chairs Dr. Julia Wellner (University of Houston, jwellner@uh.edu) and Dr. Robert Wellner (ExxonMobil, robert.w.wellner@exxonmobil.com). Poster Sessions will be coordinated by Meredith Faber (Swift Energy, meredith.faber@swiftenergy.com). Judging Co-Chairs are Sandy Rushworth (sandyrushw@aol.com) and David Risch (davidlrish@aol.com). If you have ideas on Short Courses and Field Trips or want more information on participating, contact Robert Pledger and Julia Wellner.

Pre-convention activities will start on Saturday, Sept. 19, 2015. The opening weekend will have one- and two-day field trips leaving from the George R. Brown convention center. These will be open to professionals and university students. There will also be one- and two-day short courses on the weekend of Sept 19–20, 2015. The convention formally opens on Sunday, Sept. 20, with the Opening Session and Awards Ceremony, followed by the Icebreaker.

(continued on page 20)

2014-15 Dues are Due!!

Please make payments to LGS, P.O. Box 51896, Lafayette, LA 70505 to continue receiving the Bulletin or avoiding non-member lunch costs. See page 22 for payment amounts depending upon membership level.

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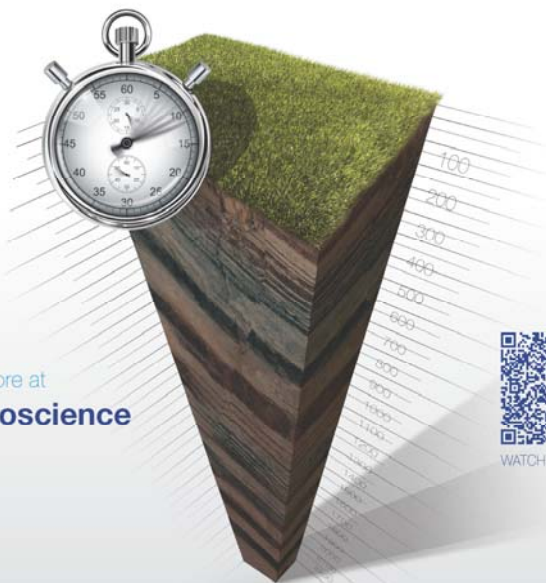
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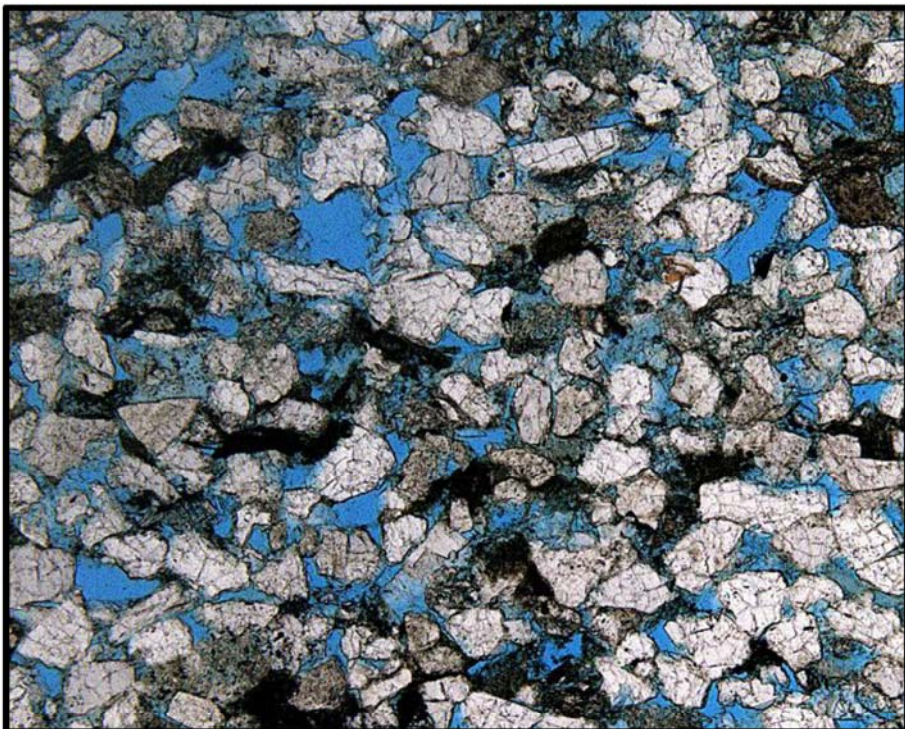


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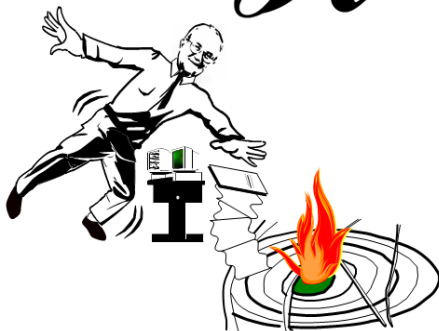
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Joe R. Klutts

cross sections, much less balance them. Yet for an interpretation in compressional settings to be valid, they must be balanced. Even in extensional areas, cross sections can and should be balanced.

Habit 10: Successful oil finders document their work. We live in an audit-friendly world today (yes that is an oxymoron). The first thing an auditor will look at is your documentation, do you have it?

The application of these ten habits in your interpretation work flow, or your teams or companies work flow, will improve your success rate by helping to ensure that your interpretations and your maps are as accurate and as geologically valid as possible.

You can still drill dry holes on prospects based on valid geologic interpretations and maps. But, with inaccurate maps and incorrect interpretations, you are almost certainly going to call for cement.

Biography

Bob Shoup is a Board Certified Petroleum Geologist with over 30 years experience in basin analysis, regional studies, new play generation, prospect evaluation, field studies and development planning, drilling operations, and project management. Bob began his career at Shell Oil in 1980; followed by four years working for private oil companies before becoming an independent consultant in 2003, consulting in Thailand, Malaysia, Vietnam, and New Zealand. A recognized expert in clastic depositional environments, rift basins, and syndepositional structural systems, Bob is a proven oil finder with a 46% exploration success rate and over 100 MMBOE discovered resources.

In addition to consulting, Bob teaches various Subsurface Consultants and Associates (SCA) training courses in Houston, and the Asia Pacific and Middle East regions. Bob is a creative individual, both within the work and home environment. In 1994 he was a nominee for the Pulitzer Prize in drama for his play *Second Alarm*.

Bob is also an active contributor in the professional community. He is a Past President of Bangkok's Chapter of the South East Asia Petroleum Exploration Society and of AAPG's Division of Professional Affairs, and past Secretary-Editor of the AAPG House of Delegates. He has served on numerous AAPG Committees and was Chairman of AAPG's Mentor, Membership and Student Chapter committees. He is a recipient of AAPG Certificates of Merit in 1990, 1991, and 1998, AAPG's Distinguished Service Award in 2000, the DPA's Distinguished Service Award in 2008, and DPA Life Membership in 2010. He currently serves as an ethics lecturer for the DPA.



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The technical program is anticipating 100 or more talks in concurrent sessions. The talks and poster sessions will occupy two full days on the third level of the George R. Brown convention center, Sept. 21–22, 2015 (Monday and Tuesday). Check the convention website www.gcagshouston.com (and later www.gcags2015.org) for more information on contacting all the volunteers and log on to the latest news as the convention planning continues from now till mid-2015. Convention registration will open in August 2015.

There are other projects initiated by GCAGS that deserve mention. There will be a *GCAGS Transactions* publication of all the talks and posters at the 2015 convention. This editor of the 2015 *Transactions* is HGS Past-President, Steve Levine (stephenlevine@sk.com). GCSSEPM Co-Editor will be Patricia Santogrossi, past *HGS Bulletin* Editor.

In addition, GCAGS has a peer-reviewed technical journal called the *GCAGS Journal* that publishes full length geosciences papers each year in hard copy and online as pdfs. The 2015 *GCAGS Journal* Editor is HGS Past-President and former *HGS Bulletin* Editor, Barry Katz. Geoscientists will need to submit a 600 word abstract detailing their proposed *Journal* paper by Dec. 2, 2014, to be included in the 2015 *GCAGS Journal*. Contact Barry Katz at barrykatz@chevron.com for more information.





LGS President Craig Glassinger (left) presents Michael Deaver with the Speaker's Gift at the October luncheon.



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LGS members with speaker Michael Deaver (center) at the October luncheon.



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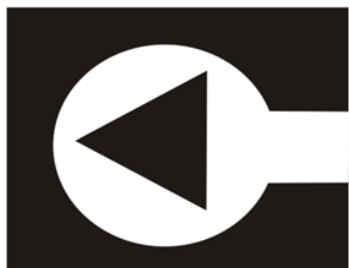
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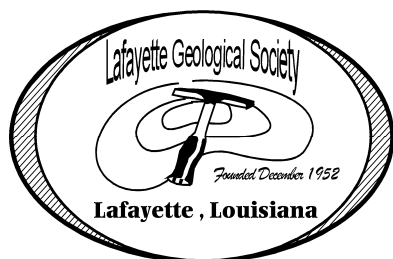
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