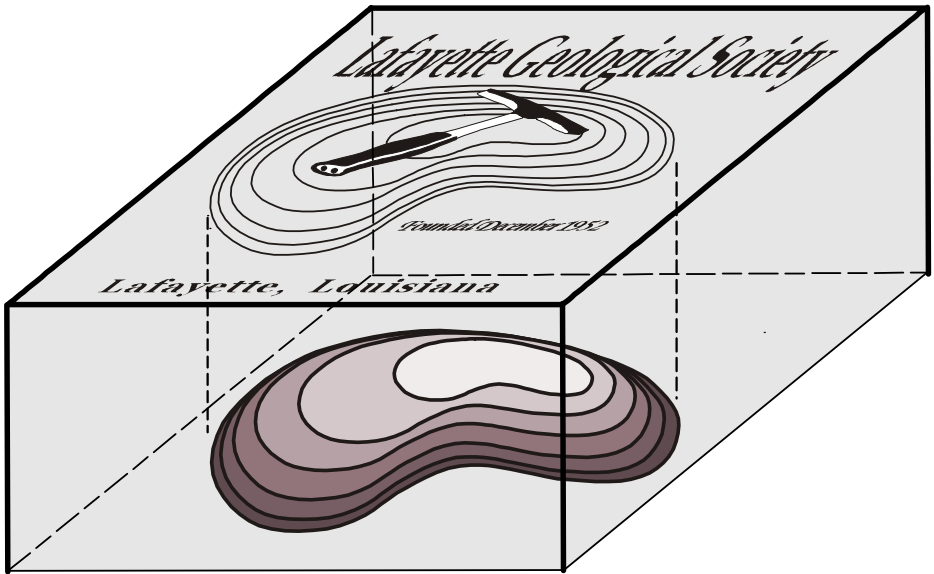


# *Lafayette Geological Society* **BULLETIN**

Volume 61, No. 5

January 2017



**LGS Luncheon Meeting**  
**Wednesday, January 18, 2017**  
**11:30 am – 1:00 pm**  
**Lafayette Petroleum Club**  
**Cost: \$20**

## **Luncheon Presentation**

**“Enhanced Oil Recovery in  
Unconventional Formations: Gas Cycling”**

*Derek Beckett, Core Laboratories*

*Visit the LGS website at:  
[lafayettegeologicalsociety.org](http://lafayettegeologicalsociety.org)*

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**LGS Luncheon Meeting  
Wednesday, January 18, 2017  
11:30 am to 1:00 pm  
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**“Enhanced Oil Recovery in  
Unconventional Formations:  
Gas Cycling”**

***Derek Beckett, Core Laboratories***

# President's Column

Greetings,

Hope you had a Merry Christmas and are off to a great start in 2017! The LGS is rolling into the New Year with a filled out slate of lunch speakers and a professional/student eat and greet event.

This month our lunch speaker on January 18th, is Derek Beckett from the Core-Labs and his topic is “Enhanced Oil Recovery in Unconventional Formations: Gas Cycling.” This should be a great talk and I hope you all can make it! Many thanks to Stratagraph for sponsoring the student attendees.



On Thursday, January 19th, LGS will host a professional/student “eat and greet” at the Deano’s Pizza location on Bertrand Dr. starting at 5:30 pm. Mark your calendars and plan to have some good food and a chance to meet with the folks who’ll be finding the oil and gas that will supply the world’s needs in the future.

See you at the luncheon!

*Samantha Leone*

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LGS wishes to thank its **Cornerstone Members** for their annual financial support of speaker programs, continuing education, UL-Lafayette scholarships, social functions, and community services.

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# JANUARY LUNCHEON PRESENTATION

## Enhanced Oil Recovery in Unconventional Formations: *Gas Cycling*

**Derek Beckett,  
Core Laboratories**



### Abstract

The problems involved in improving recovery from 5% OOIP to better than 20–30% OOIP using gas cycling are illustrated and definition of the terminology encountered and the mechanism of vaporization and condensation in nanopore structures discussed. Additional laboratory evaluation of the fluids, both reservoir and cycle gas, beyond basic pressure volume temperature relationship is explained. The phenomena of bubble point, minimum miscibility pressure depression in small nanopores requiring additional laboratory evaluation of cores is illustrated.

### Biography

Derek Beckett is Director of Technology Development for the Petroleum Services Division of Core Laboratories. Derek has 40 years of international and domestic experience in phase behavior, core analysis, and laboratory equipment design and construction. Recent projects include the startup of Core Lab's Digital Rock Characterization (DRC) group from feasibility study through hardware selection and the development of analytical protocols and the design and construction of a 3-phase, 20K psi pore pressure re-circulation rig. Current efforts are focused on understanding and increasing recovery in unconventional reservoirs using gas cycling methods.

Thanks to **Stratagraph** for  
sponsoring student attendees at the  
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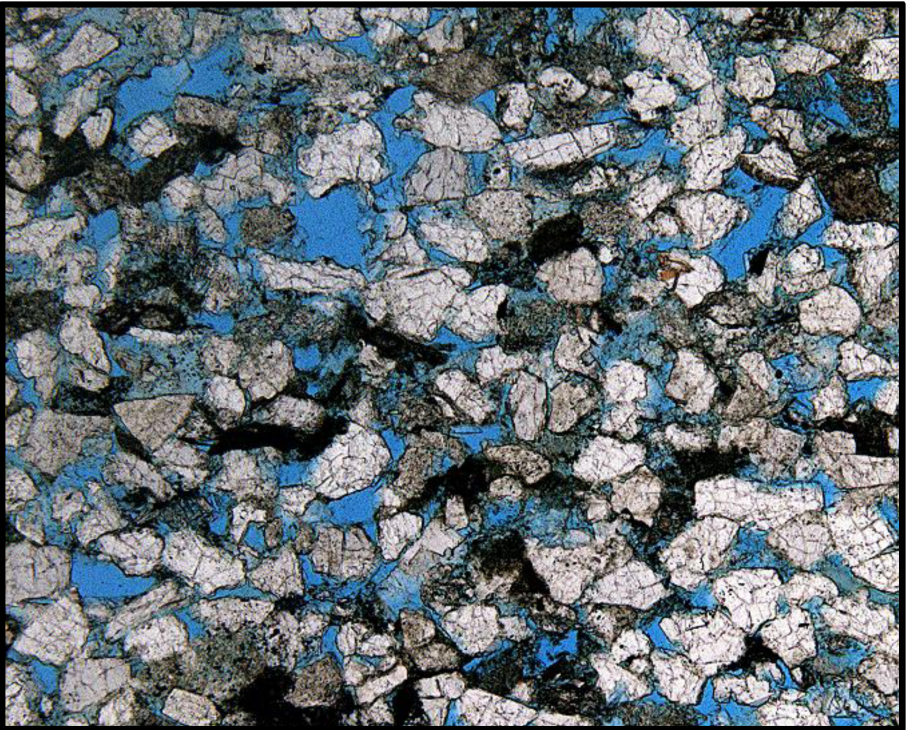
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## Calendar of Upcoming Events

**Jan. 18, 2017 — LGS:** Lafayette Geological Society luncheon meeting, 11:30 am at the Petroleum Club in Lafayette — Derek Beckett, Core Laboratories, will present “Enhanced Oil Recovery in Unconventional Formations: Gas Cycling.”

**Jan. 19, 2017 — LGS:** Lafayette Geological Society Professional/Student “Eat and Greet,” 5:30 pm at the Deano’s Pizza location at 305 Bertrand Dr., Lafayette.

**Feb., 2017 — API:** Acadiana Chapter of the American Petroleum Institute — No scheduled events as of press time. For further updates, please visit [http://www.apiacadiana.com/API\\_Acadiana\\_Chapter.html](http://www.apiacadiana.com/API_Acadiana_Chapter.html).

**Feb., 2017— SPE:** Society of Petroleum Engineers Evangeline Section — No scheduled events as of press time. For further updates, please visit <http://www.spe-laf.org>.

**Feb., 2017 — SGS:** Southeastern Geophysical Society — No scheduled events as of press time. For further updates, please visit <http://www.swlgs.org/>.

**Feb. 1, 2017 — GCAGS:** Gulf Coast Association of Geological Societies 2017 Call for Papers deadline — Abstract submission deadline for presentations at the 67th Annual Convention to be held Nov. 1-3, 2017, in San Antonio, Texas, and hosted by the South Texas Geological Society. Please visit [www.gcags2017.org](http://www.gcags2017.org) for more information.

**Feb. 8, 2017 — SIPES:** Society of Independent Professional Earth Scientists luncheon meeting, 11:30 am at the Petroleum Club in Lafayette — Speaker and topic not available as of press time.

**Feb. 9, 2017 — SPWLA:** Society of Petrophysicists and Well Log Analysts — Speaker and topic not available as of press time. Please visit [http://www.spwla.org/SPWLA/Chapters\\_SIGs/Chapters/North\\_America/Lafayette/SPWLA/Chapters\\_SIGs/Chapters/North\\_America/Lafayette/Lafayette.aspx](http://www.spwla.org/SPWLA/Chapters_SIGs/Chapters/North_America/Lafayette/SPWLA/Chapters_SIGs/Chapters/North_America/Lafayette/Lafayette.aspx) as the meeting date approaches for more information.

**Feb. 10, 2017 — 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. Please visit <http://www.brgs-la.org/> for more information as the meeting date approaches.

**Feb. 14, 2017 — SWLGS:** Joint Southwest Louisiana Geophysical Society luncheon meeting, 11:30 am at the Petroleum Club in Lafa-

yette — Speaker and topic not available as of press time. Please visit <http://www.swlgs.org/> for more information as the meeting date approaches.

**Feb. 15, 2017 — 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.

**Apr. 11-12, 2017 — LWRRRI:** Louisiana Water Resources Research Institute and Louisiana Geological Survey host the 11th Annual Groundwater, Surface Water, and Water Resources Symposium, Dalton Woods Auditorium, Energy, Coast and Environment Building, Louisiana State University, Baton Rouge — Call for Speakers issued with title deadline on Feb. 1 and abstract deadline on Mar. 1. For more information, please visit <http://lwrrri.lsu.edu/lawater-2017>.

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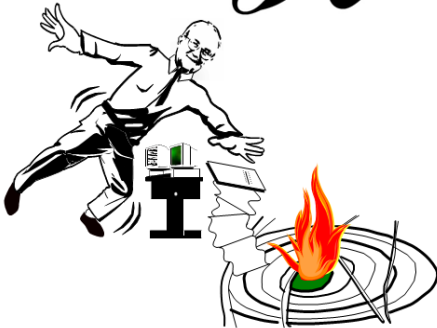
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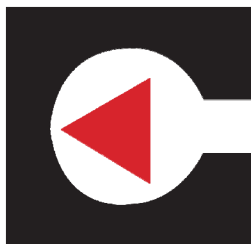
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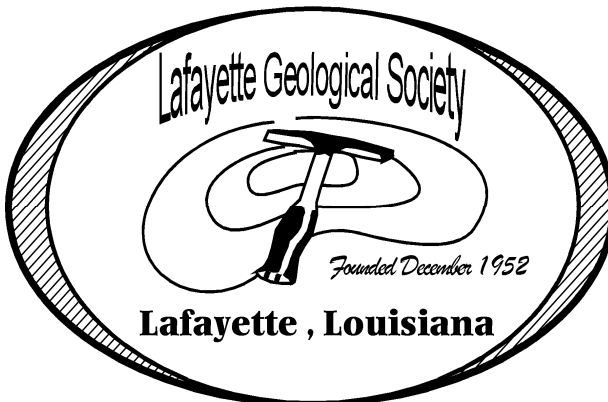
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