



eBrief

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Honoring another industry legend: Dr. John M. Campbell

The midstream industry has lost yet another legend with the recent passing of Dr. John M. Campbell.

Campbell spent a lifetime pioneering technology and its application. He received a Bachelor of Science degree in chemical engineering from Iowa State University in 1943 and a doctorate in chemical engineering from the University of Oklahoma in 1951. In 1946, he joined the chemical engineering faculty of the University of Oklahoma and later spent three years as technical advisor with a leading manufacturer of petroleum production and processing equipment. He returned to the university in the school of Petroleum Engineering, later becoming its director and director of the Petroleum Research Center.

In the early 1950s, he was a co-developer of glycol dehydration and injection, expansion refrigeration and skid-mounted field processing units. His 54-part series titled "Elements of Field Processing" was the first detailed concise technical reference in that area of gas processing and production.

In 1968, he departed the university to form John M. Campbell & Co. During his career, he was a consultant to virtually every major petroleum organization in the world.

Campbell was GPA's 51st recipient of the Hanlon Award, the gas processing industry's highest honor, which he received during the 1987 GPA Convention.

In presenting the award, James R. Moore, GPA president at the time, said, "Our honoree's significant achievements and contributions to the petroleum industry in general and the gas processing industry in particular are both numerous and sustained over a long and illustrious career."

The midstream industry has lost three influential leaders in recent months. We extend our condolences to their families but also take pride in their contributions to the industry and to GPA over the years.

GPA's ballot for the 2013 bylaws revision passes

In August, GPA's voting members received a ballot package proposing changes to GPA's bylaws. The proposed changes were recommended by GPA's Executive and Finance Committee, which suggested to the board of directors that GPA staff and elected officers could be better served with updated titles to reflect the duties they perform.

GPA's voting members overwhelmingly passed the proposed bylaws revisions with an approval rate of 100 percent. We extend many thanks for our members' support and to those developing the proposal.

The new bylaws went into effect immediately upon notifying the voting members last week.

View the approved bylaws: https://www.gpaglobal.org/assets/gpaglobal/gpa/pdf/GPABylaws_9-2013.pdf

ASTM activities

GPA staff attended the ASTM D02 Subgroup H Liquefied Petroleum Gas meeting in June, and the following activities may be of interest to GPA members:

D7756-12 – Residues in Liquefied Petroleum (LP) by Gas Chromatography with Liquid, On Column Injection

ASTM is revising this standard to include a clarification of residue method as "oily residue." It also includes a modification to the method, which would make it possible to identify various amine based chemicals (DEA, MDEA, etc.) This could be a potential alternative to D2158 (Oil Stain method).

D3700 – Sampling by Floating Piston Cylinder

A presentation covered the use of D3700 and D1265 for sampling volatile crude oils using a new light grease that allows the piston to hold the vacuum. Presently D3700 does not include crude oil.

D1265 – Sampling of LP-Gas

ASTM is modifying D1265 to remove a known liquid volume to make it safe to travel with no loss of light ends.

D2421 – Practice for Interconversion of Analysis of C5 and Lighter Hydrocarbons to Gas-Volume, Liquid-Volume, or Mass Basis

This method will be revised to include updates to conversion factors for temperature, the density value for water in vacuum, clarification in handling round-off error and corrections to examples in the appendix.

A new ASTM specification is being developed for dimethyl ether (DME) for fuel purposes. The International Organization for Standardization is also developing a new standard for DME. It appears the state of California is pushing this effort.

New committee business will focus on sulfur in liquefied petroleum gas specifically as impacted by lower sulfur limits in gasoline & diesel fuel.

The next D02 meeting is scheduled for December.

GPSA Engineering Data Book electronic download is available

An electronic version of the GPSA Engineering Data Book, which can be downloaded directly to a personal computer, is available for purchase, making delivery of the electronic copy much faster. The downloadable version has replaced the CD version that had traditionally been available. Customers still have the option of purchasing a set of hard copy books plus the electronic version, or the electronic version alone.

Once you place an order for the electronic download and the order is processed, your credit card will be charged, and you will receive an e-mail with instructions on how to download your electronic copy of the GPSA Engineering Data Book using a unique link that must be downloaded by the expiration date noted in the e-mail.

To order the Data Book, visit <http://gpsa.gpaglobal.org/databook/>.

Four new GPA Research projects proposed

The GPA research budget will be presented before the board of directors for approval in October. The proposed research budget for 2014 is \$635,000, which includes a proposal for four new projects:

Project 141 – Solubility of Hydrocarbons in Amine Treating Solutions

The objective of Project 141 is to extend the solubility measurements of hydrocarbons (aromatics and paraffins) in amine solutions to include the effects of acid gas loadings. The data will be used to estimate emissions from amine units and to estimate hydrocarbon carryover into downstream sulfur processing facilities.

Project 142 – Extended Mercaptan VLE in Loaded Amines

The objective of Project 142 is to build on earlier GPA-sponsored measurements of vapor-liquid equilibrium of sulfur species in loaded amines. This data will aid in understanding the distribution of sulfur species in amine plants, and thus help to estimate how much mercaptan (and other sulfur species) can be removed by a given amine.

Project 143 – Extension of Acid Gas Transport Properties Near Critical Phase Envelope

The objective of Project 143 is to determine heat capacity, density, thermal conductivity and viscosity for specification of the compression and cooling equipment required for acid gas injection in the near critical phase envelope range for pressure and temperature. Data shall be provided for a predefined mixture (or mixtures) of hydrogen sulfide, carbon dioxide, methane and water

GPA Section B Round Robin Project (Precision Data)

The purpose of this project is to establish precision statements for four existing GPA Analytical Standards that currently lack the reference data set required for the development. The standards are:

1. GPA 2103-03, "Tentative Method for the Analysis of Natural Gas Condensate Mixtures Containing Nitrogen and Carbon Dioxide by Gas Chromatography"
2. GPA 2186-02, "Method for the Extended Analysis of Hydrocarbon Liquid Mixtures Containing Nitrogen and Carbon Dioxide by Temperature Programmed Gas Chromatography"
3. GPA 2199-99, "The Determination of Specific Sulfur Compounds by Capillary Gas Chromatography and Sulfur Chemiluminescence Detection"
4. GPA 2286-95, "Tentative Method of Extended Analysis for Natural Gas and Similar Gaseous Mixtures by Temperature Programmed Gas Chromatography"

Precision statements in analytical methods allow the users of analytical data to understand the accuracy of the data. Understanding the accuracy of this data can help define expectations related to overall product measurement and uncertainty associated with the analytical data.

Two continuing projects are also included in the proposed budget:

1. Project 131 – Distribution of Methanol in Amine Treating Systems
2. Project 132 – Mercury Solubility in Various Gas Processing Solvents

Upon budget approval, the 2014 GPA Research Brochure will be printed and available on the GPA web site in November.

Research Reports 218 and 219 available

In the August GPA eBrief we reported that **Research Report 218 - Project No. 061 Part II, Loaded Amine Transport Properties** was available. Distribution of the report was delayed, but it is now available to GPA members and other research sponsors.

Research Report 219 - Methanol Distribution (as a contaminant) in Fractionation Products and Freeze Out Boundaries is also available.

Technical section meetings reminder

Mark your calendars for the Technical Section meetings in Dallas, Oct. 1-2 at the Wyndam Hotel at Love Field in Dallas. Sections B, C and M will meet on Tuesday, Oct. 1, and Sections A and H will meet on Wednesday, Oct. 2. Agendas will be available prior to the meetings.

Research Subgroups 1 and 2, Editorial Review Board meetings

Research Subgroups 1 and 2 will meet Nov. 4 – 5 at the Derek Hotel in Houston. The Editorial Review Board will meet on Nov. 6 at the same location.

GPA continues to deliver midstream message on Capitol Hill

While participating in the Oklahoma State Chamber of Commerce Washington D.C. Fly-In and armed with our newly revised GPA presentation, GPA Director of Government Affairs Jeff Applekamp met with key U.S. senators, representatives and congressional committee staff.

“Our GPA presentation is designed to inform and educate congressional members, and staff, of the midstream process and enlighten them of the value natural gas liquids bring to our economy and our daily lives,” Applekamp said.

Accompanied by GPA’s Washington, D.C. representative with Van Ness Feldman, Michael Platner, and Oklahoma State Coordinator of GPA’s Legislative Committee, Danny Nixon of ONEOK, GPA met with legislative leaders from Louisiana, New Mexico, North Dakota and Oklahoma. The legislators GPA met with are key leaders on the following committees: Environment and Public Works, Armed Services (Corps of Engineers), Energy and Natural Resources, Transportation and Infrastructure, and Oversight and Government Reform.

Louisiana lawsuit seeks damages from oil and gas companies for coastal erosion

In late July, the Southeast Louisiana Flood Protection Authority-East (SLFPFAE), which governs several levee districts in the New Orleans area (the Orleans Levee District, the Lake Borgne Basin Levee District [in St. Bernard Parish] and the East Jefferson Levee District) filed a lawsuit against 97 oil and gas production and pipeline companies. The agency is charged with maintaining the hurricane protection system recently built around the New Orleans metro area and was created after the extensive flooding that resulted from Hurricane Katrina in 2005.

In furtherance of what the agency believes is its duty to protect the greater New Orleans areas from flooding, it filed the petition alleging that continuous oil and gas activities by the defendants have scarred Louisiana’s coast with an extensive network of oil and gas access and pipeline canals, converting Louisiana’s first line of defense against storm surges from a thriving and cohesive coastal ecosystem into thousands of smaller decaying patches. Its theory is that the canal network continues to expand, and it introduces increasingly larger volumes of damaging seawater into the freshwater marshes, further leading to land loss. The SLFPFAE alleges that this loss has increased both the risk of storm surges and the attendant flood-protection costs. The lawsuit seeks (i) injunctive relief in the form of restoration of the coastal land and (ii) damages in the form of money to improve the man-made flood protection system. The SLFPFAE’s legal theories - at least applied in this scope and context – are relatively novel, and other suits with similar traits have been largely unsuccessful in Louisiana.

Procedurally, one of the defendants removed the case to federal court, citing several federal statutes that would control the outcome of the suit. SLFPFAE is fighting to get the case remanded back to the trial court.

The lawsuit has created a firestorm from Louisiana’s Governor Bobby Jindal. Gov. Jindal has opposed the lawsuit and has claimed that the lawsuit is nothing more than a windfall for attorneys representing the levee authority. Jindal originally argued that the case should be dismissed because the SLFPFAE did not originally vote to file the lawsuit. The agency has since ratified the action taken by its lawyers. Jindal has also threatened to replace the board members of the SLFPFAE whose terms have expired; new appointments have yet to occur.

The case is in initial stages at this point, and GPA will continue to monitor the case and keep member companies informed.

GPA to modify Environmental Excellence Award application process

To raise more awareness for the midstream industry’s commitment to environmental stewardship, GPA’s Environmental Committee has made some changes to the Environmental Excellence Award, which is presented each year at the GPA Convention to honor companies’ achievements in energy conservation and environmental support. This is a project-based award open to any GPA member company through a self-nomination application process.

GPA will have two award categories for 2013: Division I and Division II. The Division I award category is open to GPA members reporting 200,000 or more midstream operational workhours. The Division II award category is open to GPA members reporting less than 200,000 midstream operational workhours.

Each division will have its own traveling trophy that the respective winners may display at their sites for one year and then present to the following year's winner at the GPA Convention. Award recipients in both categories will also receive a plaque as a keepsake to recognize their commitments to and success in environmental excellence.

Full program details, examples of previously submitted projects and application forms will be available on Oct. 1. Look for a direct link on www.GPAGlobal.org next month.

GPSA reviews bylaws

A GPSA ad hoc committee is in the process of reviewing the association's bylaws to better clarify directors' districts, the overall board size and individual directors' tenure. The committee met in June and conducted detailed and productive discussions on each of these issues and conceptually agreed to the following wording changes to the bylaws to address those three issues:

Director's District – (Article VI) A Member Company's district shall be the address of record of its Official Representative that shall be filed with the Secretary/Treasurer.

Board Size – (Article IV) There shall be a Board of Directors consisting of a minimum of thirty (30) and a maximum of forty (40) Member Companies nominated and elected pursuant to Article VI.

Director Tenure – (Article VI) Effective (date to be determined) a person cannot serve more than a total of twelve (12) years as an Official Representative on the Board of Directors, excluding any years such person serves as an Officer of the Association.

Future action plan for the effort includes plans for the ad hoc committee to meet again to look at the bylaws with these revisions included (including some other housecleaning recommendations by GPSA's general counsel) and determine whether these recommendations should be forwarded to the board for review and approval. If the board approves the revisions, they would then move on to a membership ballot.

Rocky Mountain GPA draws great meeting, networking attendance

Rocky Mountain GPA (RMGPA) held its annual meeting at the Denver Athletic Club on Sept. 12. Nearly 170 registrants **enthusiastically** responded to keynote speaker Rep. Jerry Sonnenberg (Colorado State Representative, District 65). Rep. Sonnenberg gave insights into Colorado legislative issues, as well as his thoughts on how federal and local legislative/regulatory activities are affecting Colorado activities. He thanked the group for being significant contributors to Colorado's economy.

The concurrent afternoon sessions covered these topics:

- High BTU Fuel Gas Conditioning (Shazam Williams and Brendan Filby, DCL International)
- Design Build: Predictable Project Execution (Chuck Grier, UCI)
- NAAQ Modeling Overview (Ashley Jones, Trinity Consultants)
- NACE Update for Valves/Oilfield Equipment (Kevin Nix, Tulsa)

An afternoon networking reception was held to close the day's events. The RMGPA 12th annual sporting clays event was held the following day. Nearly 300 shooters braved less-than-ideal weather to compete for bragging rights and prizes.

For more information about joining RMGPA or attending future events, visit the chapter's web site: <https://www.rockymountaingpa.org/>.

New GPA Convention web site is live

Our new web site dedicated solely to GPA Convention information has launched. Visit www.GPAconvention.org to learn more about the 2014 conference. We will continue to update the site as more information becomes available.

Work on the new smart phone and tablet app, which will become another invaluable resource for convention information, has begun. We plan to launch the app in January, and as with the convention web site, we will continue to update the app with relevant schedule and speaker information leading up to the event.

Deadline for convention speaking opportunities nears

If you are interested in presenting at the 2014 GPA Convention, please note that the deadline to submit your abstract

for consideration is Oct. 22. Our convention speakers receive complimentary registration, not to mention a tremendous amount of midstream industry exposure and recognition. Our new GPA Convention web site has a convenient online form that makes uploading your abstract fast and simple.

Please take a look at our information about speaking opportunities prior to sending your abstract to become familiar with our guidelines.

Speaking opportunities: <https://gpaconvention.org/2014-call-for-papers>

Submit your abstract: <https://gpaconvention.org/submit-abstract>

For questions, please get in touch with Johnny Dreyer: jdreyer@GPAglobal.org.



GPA Chairman Joel Moxley, Crestwood Midstream Partners, provided remarks at GPA Europe's 30th anniversary meeting held in Edinburgh, Scotland, earlier this month. Moxley supplied meeting attendees a quick overview of North America's burgeoning natural gas shale plays.

GPA/GPSA Calendar

September

- 25 Safety Committee Meeting
- 26 East Texas/North Louisiana Shrimp Boil

October

- 1 Technical Section B, C, and M meetings
- 2 Technical Section A and H meetings
- 3 Appalachian Basin GPA Luncheon
- 4 Appalachian Basin GPA Clay Shoot
- 10 Houston GPA Annual Meeting and Golf Tournament
- 22-23 GPA/GPSA Fall Board Meetings
- 23 GPA Canada/PJVA Joint Conference
- 23 Technical Committee Meeting

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