



## REPORT TO MEMBERS December 2012

### PRESIDENT'S COMMENTARY

It was a good year for the [Gas Machinery Research Council](#).

GMRC is member driven and I appreciate the hard work of all the volunteers who served on the Project Supervisory Committee; the GMC Planning Committee; Engine Analyzer & Reliability Task Force; as well as our many workshop instructors and conference presenters.

As our natural gas industry matures with unconventional sources of supply and new markets, innovation and partnerships will play an even bigger role in the success of your organization. We value our research partners who are exploring innovative ideas and driving innovation into the field where it can be utilized. The GMRC applied research program, facilitated by industry volunteers, is helping to advance the natural gas industry.

Finally, I appreciate the leadership Craig Linn and our GMRC Board of Directors provided in 2012. These committed professionals invest their time on a volunteer basis because they see the value of what GMRC offers the industry. I look forward to another strong year in 2013 under their leadership.

Regards,

*Mike*

Mike Grubb  
President & CEO  
Gas Machinery Research Council and Southern Gas Association

### HIGHLIGHTS

- The annual Gas Machinery Conference which has become one of the compression industry's premier events, attracted over 1,200 attendees
- Five research projects were advanced:
  - High Speed Compressor Package Design Specifications and Guideline - ACI
  - Solutions to Mechanical Vibrations – BETA
  - Waste Heat Recovery Project (joint with PRCI)
  - PAN – Performance Augmentation Networks and Pulsation Attenuation Network
  - Green House Gas Emission Factor and Emissions Estimation Improvement (joint with PRCI)
- 1515 technicians, supervisors and engineers attended GMRC training programs
- Membership: We welcomed 2 operating company members; 1 engineering & fabrication member; and 6 associate members

### LEADERSHIP

#### BOARD of DIRECTORS

- Craig Linn, Williams – Chairman
- Michael Smith, UGI Energy Services – Vice Chairman
- Doug Bird, Dresser-Rand

- Angus Sites, Exxon-Mobil
- John Platt, BP Pipelines
- Kriss McDonald, Ariel Corp.
- Martin Habel, Solar Turbines
- Quince Och, Spectra Energy
- Don York, Hoerbiger
- Bob Amsberry, Williams – Chairman, PSC
- Bob Bahnick, Southern Star Central Gas Pipeline – Past Chairman
- Orin Flanagan, Bayou, Director Emeritus
- Mike Grubb, President & CEO
- Gary Choquette – PRCI Liaison
- Pat Downey, GMRC Senior VP/Staff Executive

### **GAS MACHINERY CONFERENCE**

The Gas Machinery Conference attracted over 1,200 attendees to this year's Conference held in Austin. The Conference includes a wide range of short courses, technical papers and technology updates, presented by the industry's leading subject matter experts. 2012 Conference highlights:

- 1,201 total attendees (attendance has increased 35% the past two years)
- 276 total companies represented – attendees and exhibitors
- 137 exhibiting companies (a 27% increase)
- 17 countries represented (Austria, Belgium, Bolivia, Canada, China, Columbia, Denmark, Finland, France, Germany, Mexico, Netherlands, Saudi Arabia, Spain, Sweden, Switzerland, and the US.)
- 38 technical papers, 13 short courses, 12 short technology updates

[Click here](#) to view a list of the GMC Sponsors - we appreciate you!

View [pictures](#) from the 2012 GMC

Click on one of the following publications to see what happened at the GMC each day:

[GMC Today - Monday](#)

[GMC Today - Tuesday](#)

[GMC Today - Wednesday](#)

At the conclusion of the Conference, Jim Hutton, Vice President, CECO, received the Edward N. Henderson award at the GMC awards banquet on Wednesday October 3. This award is presented for outstanding service not only to GMRC but to the industry as well.

### **RESEARCH**

The GMRC research program is managed by the Project Supervisory Committee:

- Bob Amsberry, Williams Gas Pipeline – Chair
- Bill Elston, Wartsila (Secretary)
- Everette Johnson, Cameron
- David Krenek, Caterpillar
- Martin Hinchliff, Dresser-Rand
- Rainer Kurz, Solar Turbines
- Clint Lingel, Ariel
- Steve O'Toole, Chevron
- Christine Scrivner, Kinder Morgan
- Kary Saleeby, ExxonMobil

2013 Projects include:

1. *High Speed Compressor Packaging Specification and Guideline* - ACI Services Phase 2
2. *Solutions to Mechanical Vibration Issues* - Beta Machinery Analysis Phase 2
3. *Performance Augmentation Network (PAN)* – Field Test Ongoing project

4. *Predicting the Horsepower Cost of Reciprocating Compressor Manifolds* (ACI, Ariel)
5. *Engineering Data to Aid in Compressor Package Mounting* (Beta, Atmos)

The 2013 Research Program is outlined in the GMRC Annual Meeting Report. Project status, budget, and other commentary about each of these projects can be accessed in the GMRC Annual Meeting Report at [www.gmrc.org](http://www.gmrc.org).

## TRAINING

A total of 1515 individuals attended 11 events in 2012, highlighted by record attendance at the Gas Machinery Conference.

Factors In Compressor Station Design	43
Combustion Characteristics	19
Introduction to Gas Turbines & Centrifugal Compressors	18
Applied Principles of High Speed Engines/Compressors	10
Compressor Station Vibration: Impact On Cost, Performance & Reliability	39
New Foundation Design & Repair	20
Applied Principles of Reciprocating Engines and Compressors	13
Engine Analyzer & Reliability Workshop	47
Gas Machinery Conference	1201
Engine Emissions Stack Testing/Analyzer Workshop	77
Factors In Compressor Station Design (2nd Session)	28
Total Attendance	1515

## FINANCIAL

GMRC remains on solid financial footing. Through November, receipts exceeded disbursements primarily on the strength of the training & education program. The 2012 summary report and the 2013 budget can be accessed in the GMRC Annual Meeting Report located at [www.gmrc.org](http://www.gmrc.org).

## OTHER

Annual Membership Meeting October 2012: Association by-laws were updated. 2013 officers and directors were elected. Craig Linn, Williams, will serve as Board Chairman, and Michael Smith, UGI Energy Services, as Vice Chairman.

*To receive a copy of documents referenced in this report, or for additional information, please contact us at:*

GMRC  
3030 LBJ FREEWAY, SUITE 1300  
DALLAS TX 75234  
972-620-8505 Fax 972-620-1613  
[memberservices@southerngas.org](mailto:memberservices@southerngas.org)  
[www.gmrc.org](http://www.gmrc.org)