GMRC Project Update: Vibration on Reciprocating Compressors
Wally Bratek, Principal Engineer, Beta Machinery Analysis
Read the full article.

Recently Beta Machinery Analysis (Beta) was asked to help resolve a problem on a reciprocating compressor package used in a gas gathering application. The team is now looking at three different solutions to address the vibration problems. FE modeling has commenced and we expect prototypes to be constructed in July 2012. Beta has donated shop time, materials, and design experts to help with this project. Dresser-Rand is donating time at its closed loop test facility to assist with site evaluations.

The team is also providing recommendations for “good design practices” that owners can specify to ensure their packages have a higher chance of avoiding problems.

As with any research project, it is difficult to predict if these new solutions will be successful. Stay tuned as we continue with the evaluation.

Beta Machinery Analysis and GMRC acknowledge the financial support and technical input from the project team. Other end users and consulting firms interested in participating are encouraged to contact Wally Bratek, Beta Machinery Analysis, or Pat Downey, GMRC. Click here to read the full article and see related images.

GMRC Project Update: High Speed Compressor Packaging Specification and Guideline
Norm Shade, President, ACI Services
Read the full article.

Phase I of the project, involving an extensive survey of 29 end users, packagers, OEMs, and engineering companies, coupled with site visits to 11 installations having a total of 30 large, hi-speed compressors, was completed in 2011 and summarized in a detailed report. Phase 2, which is the actual development and production of the Specification and Guideline, is on target for completion by the end of 2012.
ACI Services Inc. is the contractor, under the supervision of the GMRC Project Supervisory Committee, to develop a High-Speed Compressor Packaging Specification and Guideline, principally for separable compressor packages rated at >700 RPM and >2000 HP for gas transmission and storage applications. The end result will be of significant benefit to the industry, helping to ensure that large, high-speed compressor packages are properly proposed, specified, designed, fabricated, installed and applied with successful results that meet end user, OEM and packager expectations.

Contact Norm Shade, President, ACI Services, for more information. Click here to read the full article.

### 2012 GMRC Board & Officers

Click here to view the 2012 GMRC Board of Directors & Officers.

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### 2012 GAS MACHINERY CONFERENCE

**Gas Machinery Conference**

Austin, Texas - Hilton Hotel and Austin Convention Center

September 30 - October 3, 2012

**Keynote Speaker:** Greg Schwem - *Comedy with a Byte*

The GMRC Gas Machinery Conference includes three days of technical training and presentations presented by the industry's leading subject matter experts. The 2012 program features 13 short courses, 38 technical papers, and 13 new technology updates. The conference also includes a vendor exhibit with over 100 companies showcasing the latest equipment, technology and services. Educational sessions and networking opportunities are valuable for design engineers, facility engineers, technicians and others, with an emphasis on the operation, maintenance, and testing of gas compression machinery. More information...

**GMC Today Content**

There is limited advertising space available for the 2012 GMC Today, the official publication of the Gas Machinery Conference. Contact Nicole Reilley to reserve an ad today.

Please contact Nicole Reilley if your company is interested in submitting content for publication in the 2012 GMC Today. Reminder: The GMC Today will not be published until late September/early October. All content submitted for publication should be relevant at the time of publishing. Select a publication below to view content from last year's GMC Today:
GMC Online Advertising

The Gas Machinery Conference (GMC) web page now has the ability to feature your company's information! With more than 1,000 attendees, the GMC web page is a great place for your company's logo to be seen. Attendees check the conference web page for the latest information for months leading up to the conference. Don't miss this opportunity to feature your company's logo and link to your company's website on the GMC web page. Contact Nicole Reilley for more information.

GMRC TRAINING & EVENTS

New Foundation Design and Analysis & Existing Foundation Repair, Upgrading, and Regrouting
New Content & Agenda!
Houston, Texas
June 14-15, 2012

The revised course presents a unique understanding of the design and analysis of new foundations for reciprocating compressors, as well as, the failure and repair of existing compressor foundations. The instructors will cover topics such as vibration dissipation, equipment mounting, soil characteristics, design specifications, foundation loads, failure analysis methods, and repair techniques. In addition, important aspects of various ACI specifications will be reviewed in a practical manner. The basics of installing a foundation and common problem areas will be discussed. This course covers reciprocating compressor foundations through inception, design, installation, operation, failure, and repair. This course is taught by highly respected instructors from Rowan and Associates. THE AGENDA IS NEWLY REVISED FOR 2012. More information...

Applied Principles of Engines and Compressors
Houston, Texas
June 11-15, 2012

This in-depth workshop is an engine fundamentals class that provides a solid foundation to any employee involved in the operation of prime movers. Although the principles described in this class are simple and easy to understand, the class is both stimulating and challenging. Upon completion, each person will have a basic understanding of the equipment configuration and operation and will be capable of simple troubleshooting and problem recognition for their gas compression equipment. More information...

Engine Analyzer & Reliability Workshop
Fort Worth, Texas - Omni Hotel
July 17-19, 2012

This GMRC workshop is designed to meet the needs of analysts and engineers who are involved in predictive and preventive maintenance programs throughout the natural gas industry. Classes that range from basic to advanced will allow the analysts and engineers to take home information that is useful now. More information...
Engine Emissions Stack Testing & Analyzer Workshop  
Oklahoma City, Oklahoma - Renaissance Hotel  
October 30 - November 1, 2012

This popular workshop provides an understanding of the following critical issues: the processes and equipment for EPA stack testing methods and protocols; function and design of portable analyzer equipment; factors affecting accuracy and outcome of testing and other calculations and flow measurements required; state and federal requirements in lieu of Title V enhanced monitoring and record keeping and reporting requirements; evaluation of emissions reduction technology for internal combustion and turbine engines. More information...

Southern Gas Association Events

Southern Gas Association is the parent organization of GMRC. Click here to view all upcoming SGA events.

Integrity Management for Gas Transmission Pipelines: Safely Managing the Lifecycle of Pipelines  
June 5 - 7, 2012  
Houston, Texas

Accelerated Main Replacement Programs  
July 19, 2012  
Berkeley, Missouri

Operating Conference & Exhibits  
July 23 - 25, 2012  
Fort Worth, Texas

MAOP Documentation, Collection & Control Roundtable  
Part of the AGA/SGA Transmission Best Practices Program  
July 25 - 26, 2012  
Fort Worth, Texas

Visit the GMRC website for more information about the Gas Machinery Research Council.