The 2014 High Horsepower (HHP) Summit drew more than 1,500 stakeholders from the marine, rail, drilling, pressure pumping, mining, and remote power generation sectors for an exciting look into North America’s most forward-thinking natural gas fueling projects. Set in New Orleans, the four-day conference and exhibition provided the perfect setting for HHP stakeholders to collaborate on infrastructure development, technology and engine advancements, and the creation of up-to-date regulations.

Nearly 100 exhibitors packed the expo hall, giving attendees hands-on access to the latest engines, tanks, nozzles, valves, instrumentation control systems, regasification units, ISO containers, and more. HHP Summit was one show not to be missed, as several dozen industry announcements and product debuts took place throughout the week and on the sold-out show floor!

With a focus on peer-to-peer learning, the sessions featured dozens of early adopter case studies – including Antero Resources, Apache, Becker Marine Systems, Clean Marine Energy, Crowley Maritime, CSX, Genalta Power, Halliburton, Harvey Gulf, Hawai'i Gas, Indiana Harbor Belt Railroad, Nabors, Noble Energy, Norfolk Southern, Southwestern Energy, Seneca Resources, TOTE, Weatherford, Wellgreen Platinum, and Van Enkevort Tug and Barge, among many others.

Mark your calendars for HHP Summit 2015, scheduled for October 26-29 at the Kay Bailey Hutchison Convention Center in Dallas.
Who Attended HHP Summit 2014?

Geographic Reach of Attendees

89% United States Attendees

11% International Attendees
Highest levels of representation: Canada, Germany, United Kingdom, Austria, Mexico, Turkey, Japan, France, Argentina, Chile, Peru, Italy, Norway, Russian Federation, Spain, Switzerland, Denmark, India, Poland, Sweden, U.S. Virgin Islands, Venezuela

Sampling of Titles of Registered Attendees
HHP Summit 2014 brought together a diverse mix of high horsepower decision makers, including:

Chief Mechanical Engineer
Chief Mine Engineer
Chief Executive Officer
Chief Operating Officer
Commercial Manager
Demand Development Engineer
Director, Energy Procurement and Strategy
Director, Equipment and Maintenance
Director, Finance
Director, Strategic Initiatives Planning
Director, Sustainable Development
Director, Corporate Commercialization
Director, Corporate Drilling and Completions
Director, Locomotive Engineering
Director, Mine Operations
Director, Purchasing & Project Manager
Director, Strategic Analysis
Director, Technology
Director, Transport & Logistics
Director, Strategic Sourcing
Drilling Engineer
Engineering & Standardization Manager
Engineering Team Leader
Environmental Specialist
Equipment Manager
General Manager
Lead Planning Engineer
Maintenance Manager
Manager, Fuel Logistics
Manager, Operations Support
Managing Director
Manager, Marine Products Technical
Marine Superintendent
Mechanical Engineer
Mine Engineering Superintendent
Mine Maintenance Superintendent
Port Engineer
President
Project Manager
Rig Operations Superintendent
Senior Locomotive Project Manager
Senior Maintenance Supervisor
Senior Vice President
Senior Sourcing Specialist
Systems Manager
Vice President, Demand Development
Vice President, Midstream Development
Vice President, Procurement & Supply Chain

Sampling of Companies Represented:

AEP River Operations
Alpha Natural Resources
American River Transportation
Antero Resources
Apache Corporation
Aranac Phosphate
Bayou Well Services
BNSF Railway
Buckskin Mining
C&J Energy Services
Carib Energy
Carnival Corporation
Cenovus Energy
Certarus
Chevron
Cloud Peak Energy
ConocoPhillips
Crowley Maritime
CSX
Desert Valley Disposal / Palm Springs Disposal Services
Devon Energy
Duluth Seaway Port Authority
ELM Energy
Engine Systems
EGT Corporation
ExxonMobil Research & Engineering
Florida East Coast Railway
Freepoint Commodities
Genalta Power
Genex Transportation
Grupo Mexico
Gulf Oil
Halliburton
Harley Marine Services
Harvey Gulf International
Hawaii Gas
Hess Corporation
Imperial Oil / ExxonMobil
Indiana Harbor Belt Railroad
Jack B. Kelley
John W. Stone Oil Distributor
Kiewit
Kiewit Energy Group
Kiewit Mining Group
Kirby Inland Marine
LEAM Drilling Systems
Leduc Group
Lynx Operating
Martin Energy Services
Martin Marine
Matheson
Metra Commuter Rail
Mitsui O.S.K. Bulk Shipping
Nabors Well Services

North Carolina Department of Transportation, Rail Division
New Orleans Public Belt Railroad
Noble Energy
Norfolk Southern
Osisko Canadian Malartic
Osisko Mining
Parker Towing Company
Patterson UTI Drilling Company
Performance Technologies
Pioneer Natural Resources
Port Authority of New York & New Jersey
Port of Jacksonville
Port of Long Beach
Port of New Orleans
Prince Rupert Port Authority
SCF Marine
SEACOR Marine
Southern Peru Copper
Southwestern Energy
Tesco Corporation
The Mosaic Company
U.S. Well Services
Universal Well Services
VanEnkevort Tug & Barge
Wellgreen Platinum

“My two biggest takeaways were the connections and partnerships introduced on the expo hall floor.”
– Jeffrey Brunell, Crowley Maritime
Multiple product debuts took place on the expo hall floor, paired with industry news shared throughout the week during conference sessions, solidifying HHP Summit as THE show to attend to stay up-to-date on natural gas industry advancements.

**ANGA** released a new report that identifies LNG growth opportunities for marine and rail sectors in three key regions: the Gulf of Mexico, the Great Lakes, and inland waterways.

**Clean Marine Energy and WesPac Midstream** announced a partnership to bring LNG fuel to the marine sector, promising funding for not only LNG engine conversion, but also for infrastructure related to LNG fuel supply and delivery.

**CMR Group** unveiled its new catalyst monitor for gas-fueled engines and its J1939 Connect CAN™ temperature sensor for high horsepower gas engine applications.

**Crystar** debuted its new StarLiteLNG™ liquefiers, offering four frame sizes from 12 to 76 k GPD capacity.

**Accurate Technologies, Inc.** introduced a new pocket-sized CANary™ Interface Module, providing two CAN channels for synchronous data acquisition via USB connection.

**Thigpen Energy** announced a partnership with Intervale Capital in support of both fleet and geographic expansions for Thigpen’s HHP natural gas fueling solutions.

**GFS Corp** announced its partnership with Arch Coal as the launch customer for the EVO-MT 8300 system for converting mine haul trucks to LNG—diesel dual-fuel operation.

**Cryostar** debuted its new StarLiteLNG™ liquefiers, offering four frame sizes from 12 to 76 k GPD capacity.

The 2014 HHP Summit garnered support from 14 official media partners spanning the marine, rail, mining, E&P, and power gen sectors, demonstrating the event’s prominent role in showcasing the most forward-thinking natural gas initiatives and key industry partnerships. The event received news coverage from a variety of media outlets, including:

- **bunkerworld**
- **CalNGV News**
- **CNBC**
- **COMPRESSOR.com**
- **Construction Equipment Guide**
- **DE Generation**
- **DEG Energy, Gas & Power Worldwide**
- **Energy & Intelligence**
- **For Construction Pros.com**
- **gasworld**
- **HHP INSIGHT**
- **Hoffman Plan Controls, Inc.**
- **MarineLog**
- **MARINER**
- **Missouri Surface Water**
- **Monico**
- **miretech**
- **MSW Management**
- **OEM Off-Highway**
- **Penn Energy**
- **Professional Mariner**
- **Railway Age**
- **PennEnergy**
- **Professional Mariner**
- **Power Engineering**
- **Railway Age**
- **Thigpen Energy**
- **Unconventional Oil & Gas**
- **U.S. Business Report**
- **Yahoo! News**

**“HHP Summit is focused on real-world applications.”**  
—Andrea Selvaggi, Alfa Laval
Highlights from the Expo Hall Floor

Exhibitors

329 - ABB
614 - ABS
240 - Accurate Technologies, Inc.
850 - ACD Cryogenics
338 - Altronic GTI
838 - American Power Group
504 - America’s Natural Gas Alliance (ANGA)
128 - ANGI Energy Systems
912 - Applied Cryo Technologies
715 - Applied LNG
616 - AVL
814 - Bestobell
132 - CanGas
528 - Caterpillar
940 - Cazgr
718 - Chart Inc.
848 - Clean Energy
832 - Clean Marine Energy
130 - CMR Group
542 - ComAp
127 - Continental Controls
642 - Cryostar
820 - Cummins
413 - Diesel & Gas Turbine Publications
912 - Dragon/Applied Cryo Technologies
546 - Dresser-Rand
228 - Energy Conversions
328 - Excel Engineering
812 - Fairbanks Morse Engine
448 - Federal Mogul
244 - Ferus
514 - FlexGen Power Systems
516 - FNX LNG
438 - Galileo Technologies
646 - GE
638 - GFS Corp
805 - Gladstein, Neandross & Associates (GNA)
135 - Global Fabrication
416 - GP Strategies
140 - Hexagon Lincoln
133 - Hitachi High Technologies
139 - Hoffer Flow
332 - HosePower USA
340 - Hy-Lok USA
738 - INOXCVA
615 - Interstate-McBee
129 - Intertek
349 - JC Carter
141 - Kari Dungs
828 - Kate Engineering – Emerson Industrial Automation
134 - Ludeca, Inc.
512 - Macro Technologies
513 - MAHLE
238 - MIRATECH
917 - Monico, Inc.
326 - MSA Safety
420 - Norgren
612 - Parker Hannifin
816 - Parma-Pipe, Inc.
136 - PHPK Technologies
730 - Pivotal LNG
712 - Power Solutions International (PSI)
334 - Prometheus Energy
933 - PSB Industries
935 - REV LNG
842 - Ricardo
520 - Rollis-Royce
248 - Sempra US Gas & Power
939 - Senior Flexonics
620 - Shell Oil Products
226 - Southwest Research Institute
913 - Stabilis Energy
126 - Sulzer Turbine
538 - Taylor-Wharton
320 - Thigpen Energy
964 - Trinity Cryogenics
814, 816 - W&O
642 - WesPac Midstream
430 - Westport
522 - Woodward
928 - Worthington Cylinders

“This industry is still developing, and the HHP Summit helps drive real progress.”

–Dimitri Karastamatis, CenterPoint Energy
Nearly 100 exhibitors packed the expo hall, giving attendees hands-on access to the latest engines, tanks, nozzles, valves, instrumentation control systems, regasification units, ISO containers and more.

“HHP Summit was organized in a way that provided people from many professions the opportunity to learn.”

–Jeremy Smith, Patterson UTI Drilling Company

“This was my first HHP Summit, and I was blown away.”

–Dave Wall, Parker
Partnerships, Investments, and Progress

From new LNG production plants to off-road transportation deployment projects, hundreds of millions of dollars are being invested in natural gas HHP projects throughout North America. Project concepts are now transitioning to tangible investments from industry leaders and end-users working together to advance the industry. During HHP Summit’s opening plenary session, executives from major HHP companies presented, alongside their industry partners, a compelling case for natural gas deployments in the form of cost savings, emissions reductions and environmental compliance.

Sector-specific tracks—marine, drilling, pressure pumping, rail, mining, and power generation—offered attendees a customized educational experience.

View the full agenda and speaker lineup at www.gladstein.org.

Noble Energy and Chart Industries shared development plans for a new LNG plant just outside of Denver, Colorado. The LNG be used to power Noble’s E&P operations and other third party drill rigs, frac pumps and additional heavy-duty on- and off-road equipment in the Denver-Julesburg (DJ) Basin.

Shell and Harvey Gulf discussed the deployment of the Harvey Energy, the first of six LNG-powered commercial marine vessels in North America. Harvey Gulf will operate several LNG-powered offshore supply vessels in a charter service with Shell Deepwater to support the company’s offshore drilling rigs.

Pivotal LNG and Crowley discussed their joint partnership to supply and distribute U.S.-sourced LNG to the Coca-Cola bottling plant in Puerto Rico, displacing their current energy source, diesel. This bellwether project will help pave the way for increased LNG fuel use in Puerto Rico and the broader Caribbean markets.

“Very informative. A good variety of industry expertise and technical information.”

–Mike Parker, Freepoint Commodities
Agenda

Long-Term Industry Outlook
Throughout the four-day event, high-level industry executives shared their outlook on how natural gas is changing the high horsepower game. Keynote presentations from Tana Utley at Caterpillar and Lorraine Bolsinger at GE Power & Water signaled a strong commitment to the advancement of gas-powered engines for marine, rail, mining, drilling, pressure pumping, and power gen applications. “All parts of the industry must play off of each other,” Utley stated, setting the common thread for Caterpillar’s HHP Summit message on the importance of collaboration to make tangible progress in driving the industry.

Marty Durbin, president and CEO of America’s Natural Gas Alliance discussed key North American regions that are prime for LNG growth in off-road sectors. Dale Nesbitt of Arrowhead Economics reinforced the incredible opportunity presented by natural gas, saying that the abundant resources available from 47 global shale formations provide a positive long-term price forecast. “The world is a literal ‘éclair,’ everywhere you punch a hole in the crust, cream comes out!” exclaimed Nesbitt.

Technical Workshops
Nearly 1,000 attendees joined us at HHP Summit before the official conference start to partake in a series of technical workshops offering a ‘how-to’ guide for natural gas project deployment. Geared toward high horsepower end-users and North American ports, the workshops addressed the present challenges and opportunities facing the industry as the natural gas market develops. Technical workshops included:

- Reading North American Ports for LNG Infrastructure
- LNG Plant Development: Strategy, Timeline, and Key Considerations
- Navigating Project Development: Key End-User Considerations for HHP Project Planning & Optimization

Peer-to-Peer Learning
Attendees took advantage of the opportunity to learn from peers across multiple high horsepower sectors whom have realized economic and environmental benefits as early adopters of natural gas technology. Sharing cross-sector lessons, attendees gained an inside perspective on the conversion process, technology and fueling solutions, regulatory compliance considerations, net cost savings and more. Early adopter case studies were presented by:

- “Very interesting and useful to mining operations.”
  —Wilbert Perez, Southern Peru Copper

Natural Gas Engine & Fueling Solutions
Over the course of the event, attendees had the opportunity to learn about a range of dedicated and dual-fuel engines and conversion kits that have been developed by industry leaders and rigorously tested by early adopters. In addition, sector-specific fueling sessions helped attendees navigate LNG production, fuel sourcing and delivery, regulatory and safety requirements, and other key considerations in the development of a natural gas fueling plan.

- “Understanding the overall market helps educate us on the unique application for rail.”
  —James Derwinski, Metra Commuter Rail

Off-Site Tour
Representatives of Harvey Gulf International Marine and its customer Shell provided a private group tour to marine vessel operators, featuring a visit to the Gulf Coast Shipyard Group’s yard in Gulfport, Mississippi, followed by a dockside visit to the Harvey Energy, the first U.S. flag vessel to operate on liquefied natural gas.
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Natural Gas for High Horsepower Applications

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