



Do you have business or industry news of interest to the minerals, metals, and materials community? Submit your announcement or press release to Lynne Robinson, JOM Magazine Editor, at [lrobinson@tms.org](mailto:lrobinson@tms.org) for consideration.

## In Case You Missed It: Business News from the Field

### **Subsea Compression System Earns Field-Proven Status**

**Stavanger, Norway:** The two subsea compression trains in use at Statoil's Åsgard field in the Norwegian Sea have reached Technology Readiness Level 7 after more than 10,000 operating hours each, with an availability close to 100%. Though typically installed above sea level, these two 11.5 MW HOFIM motor-compressor-units are the world's first compressors in operation 300 meters below sea level.

### **Velocys Confirms Mississippi Biorefinery Site**

**London, United Kingdom:** The renewable fuels company, Velocys plc, has signed a site option agreement with Adams County, Mississippi for its first U.S. biorefinery. Located in Natchez, Mississippi, the site will span 100 acres and was selected for a number of factors, including an abundant supply of low-cost forestry residues and a broad range of economic development incentives.

### **Collaboration on Additive Manufacturing Engine Repairs**

**Columbus, Indiana, USA:** Cummins Inc., maker of diesel engines, is working with researchers at Oak Ridge National Laboratory to develop an additive manufacturing process and material for use in repairing cylinder heads on heavy-duty engines. This would replace the

traditional method of replacing worn cast iron components with new castings and is aimed at producing a stronger, more thermally efficient product.

### **Filament Winding Technology Leads to Fully-Automated Production Line**

**Steffenberg, Germany:** Roth Composite Machinery has developed a fully-automated production line for liquefied petroleum gas (LPG) vessels using filament winding technology. The line contains four winding stations with five spindles each and enables the production of 600,000 LPG vessels per annum, or a completed cycle every 43 seconds.

### **Premier of the Carbon Carrier Design**

**Ehningen, Germany:** German engineering firm Bertrandt and chemicals company SGL Group have collaborated to produce the Carbon Carrier, a new design for automotive vehicles interiors which uses lightweight fiber compounds for new interior configurations and design options. In addition to redesigning structural components, the design could help engineers visualize central load paths and carbon fiber reinforced plastics elements for drivers.

**Palo Alto, California, USA:** Tesla entered the semi market with the launch of its heavy-duty all-electric truck. Highlighted at the launch event in November 2017 were the vehicle's range of up to 500 miles, energy consumption of less than 2 kWh/mile, and the ability to accelerate from zero to 60 mph in 20 seconds. (Image, right, courtesy Tesla Motors.)

