

## Ball Aerospace Showcases Phased Array Antennas, Optical Communications and Remote Sensing Capabilities for Commercial and Government Applications at SATELLITE 2018

WASHINGTON, March 9, 2018 [/PRNewswire/](#) -- Ball Aerospace is demonstrating how its decades of work for the U.S. government in civil, defense and intelligence applications is being applied to benefit commercial markets at this year's SATELLITE 2018 conference. As evidenced by cross-industry collaborations with various partners, Ball's expertise in space-based and tactical remote sensing systems including phased-array antenna systems, optical communications, persistent imaging and data analytics are transforming the commercial marketplace in terms of accessibility and affordability.

Ball is shaping transformational communications with its line of low-cost phased-array antennas for both satellite communications (SATCOM) and 5G connectivity. Ball's phased array SATCOM antennas enable reliable connectivity in the L-, X-, Ku- and Ka-band spectrums, including in-flight connectivity, delivering broadband high data-rate communication and video streaming. In addition, Ball's new 5G Rapid Prototype Phased Array with Anokiwave, Inc. will help enable the future of 5G connectivity.

Ball is also delivering reliable, high-speed, high-bandwidth connectivity - between satellites and to and from space - using its innovative, high-bandwidth inter-satellite links and Earth-to-space links. Ball's optical communications systems meet customers' need for data at the speed of light and connect the world faster and more securely.

Ball's expertise in remote sensing is translating to new commercial markets, from low-cost sensors and spacecraft to open-source software and data analytics, to persistent, high-resolution data from a variety of platforms. Ball is meeting customer demand for near real-time actionable intelligence with its deep understanding of sensors, platforms, missions and analytics.

Ball's phased-array antennas, optical communications technology, sensors and data analytics capabilities will be on display at Booth #1817 in the Exhibit Hall at SATELLITE 2018. Ball Aerospace leaders will also share their knowledge in the following series of high-level panel discussions:

Monday, March 12:

- *"SGx Keynote Series & Speed Mentoring."* Hosted by the Future Space Leaders Foundation and the Space Generation Advisory Council, this program connects young professionals and industry veterans in the satellite community. Ball Aerospace's director of government relations, Joe Vealencis, will speak during the event. Several Ball representatives will also be participating in the speed mentoring sessions. Room 207A throughout the day.
- *"The New Economics and Costs of Building Constellations."* The panel discussion will feature Debra D. Facktor, Ball Aerospace vice president and general manager, strategic operations, along with other industry experts. Room 206 at 9:45 a.m.

Tuesday, March 13:

- *"Startup Space."* Startup Space gives entrepreneurs a chance to pitch their space startup idea to a panel of highly qualified, experienced and accomplished space professionals, investors, thought leaders and fellow entrepreneurs. Ball Aerospace's Facktor will give welcoming remarks. Dave Fischer, strategic operations senior manager, will serve as a judge and Jeff Smith, volunteering for the Space Frontier Foundation, helped organize Startup Space. SATELLITE Unveiled Theater, Booth 1152, Exhibit Hall, from 10:45 a.m. to 5:00 p.m.

Wednesday, March 14:

- *"New Antennas, New Opportunities."* The panel will feature Pete Moosbrugger, Ball Aerospace chief technologist, phased array and RF technology, as well as other leaders in the aerospace industry. Room 201 at 1:45 p.m.

Thursday, March 15:

- *"Advances in Earth Imagery and Data Capturing Technology."* The discussion will feature Alex Chernushin,



Ball Aerospace director of commercial operations, and other panelists from the aerospace industry. Room 201 at 10:00 a.m.

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### **Forward-Looking Statements**

This release contains "forward-looking" statements concerning future events and financial performance. Words such as "expects," "anticipates," "estimates," "believes," "targets," "likely" and similar expressions typically identify forward-looking statements, which are generally any statements other than statements of historical fact. Such statements are based on current expectations or views of the future and are subject to risks and uncertainties, which could cause actual results or events to differ materially from those expressed or implied. You should therefore not place undue reliance upon any forward-looking statements and any of such statements should be read in conjunction with, and, qualified in their entirety by, the cautionary statements referenced below. The company undertakes no obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise. Key factors, risks and uncertainties that could cause actual outcomes and results to be different are summarized in filings with the Securities and Exchange Commission, including Exhibit 99 in our Form 10-K, which are available on our website and at [www.sec.gov](http://www.sec.gov). Additional factors that might affect: a) our packaging segments include product demand fluctuations; availability/cost of raw materials; competitive packaging, pricing and substitution; changes in climate and weather; competitive activity; failure to achieve synergies, productivity improvements or cost reductions; mandatory deposit or other restrictive packaging laws; customer and supplier consolidation, power and supply chain influence; changes in major customer or supplier contracts or a loss of a major customer or supplier; political instability and sanctions; currency controls; changes in foreign exchange or tax rates, including due to the effects of the 2017 U.S. Tax Cuts and Jobs Act; and tariffs on imported raw materials, including pursuant to section 232 of the U.S. Trade Expansion Act of 1962; b) our aerospace segment include funding, authorization, availability and returns of government and commercial contracts; and delays, extensions and technical uncertainties affecting segment contracts; c) the company as a whole include those listed plus: changes in senior management; regulatory action or issues including tax, environmental, health and workplace safety, including U.S. FDA and other actions or public concerns affecting products filled in our containers, or chemicals or substances used in raw materials or in the manufacturing process; technological developments and innovations; litigation; strikes; labor cost changes; rates of return on assets of the company's defined benefit retirement plans; pension changes; uncertainties surrounding geopolitical events and governmental policies both in the U.S. and in other countries, including the U.S. government elections, budget, sequestration and debt limit; reduced cash flow; ability to achieve cost-out initiatives and synergies; interest rates affecting our debt; and successful or unsuccessful acquisitions and divestitures, including with respect to the Rexam PLC acquisition and its integration, or the associated divestiture; the effect of the acquisition or the divestiture on our business relationships, operating results and business generally.

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