



## **Northrop Grumman Brings Cutting Edge Technology, New Products to Microwave and Semiconductor Conventions in Phoenix Area**

May 13, 2015

**Company will showcase manufacturing advances at International Microwave Symposium, CS ManTech and Reliability of Compound Semiconductors**

REDONDO BEACH, Calif., May 13, 2015 /PRNewswire/ -- Northrop Grumman Corporation (NYSE: NOC) announced its participation in three Phoenix, Arizona-area conventions focused on microwave and semiconductor technology: the International Microwave Symposium 2015 (IMS), the 2015 International Conference on Compound Semiconductor Manufacturing Technology (CS ManTech) and the 2015 Reliability of Compound Semiconductors (ROCS) workshop. At all three conferences, Northrop Grumman will highlight the company's expertise in microelectronics innovation and transitioning new technology to demanding, high performance communications applications.

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"Advancements in compound semiconductor technology have a significant impact on global security and communications markets, affecting a broad range of products from radar systems to satellite systems to mobile devices," said Frank Kropschot, general manager, Microelectronics Products and Services, Northrop Grumman. "Our talented scientists and engineers are working every day to improve the products we provide to our customers and to push the limits of our capabilities. Our presence at these events underscores the importance Northrop Grumman places on this business."

Throughout the week, Northrop Grumman will present several papers, including a summary of the highest output power ever achieved from a single chip Ka-band gallium nitride (GaN) Monolithic Microwave Integrated Circuit (MMIC) power amplifier that peaked at 40 Watts at 27 gigahertz (GHz) and demonstrated significant advancement over current published results.

At IMS, Northrop Grumman will sponsor the Student Awards Luncheon which honors the winners of 16 different design competitions. The company is also a platinum corporate sponsor for CS ManTech, and has technical leaders in both the Executive Committee and Technical Program Committees.

Continuing the company's reputation for transitioning leading edge communications products into everyday use, Northrop Grumman will present several new semiconductor products including high power amplifiers covering X-Band, Ku-Band and Ka-Band.

More information and advance data sheets on the gallium nitride product line are available online at [www.as.northropgrumman.com/mps](http://www.as.northropgrumman.com/mps). Limited engineering prototype samples are available from stock to qualified customers by contacting MPS at [mas-mps.sales@ngc.com](mailto:mas-mps.sales@ngc.com).

Northrop Grumman is a pioneer in the design and fabrication of high-speed components for established and emerging commercial markets, including cellular and broadband wireless systems as well as aerospace, defense and scientific applications. The company also offers foundry services that utilize advanced gallium nitride, gallium arsenide and indium phosphide semiconductor manufacturing processes.

Northrop Grumman is a leading global security company providing innovative systems, products and solutions in unmanned systems, cyber, C4ISR, and logistics and modernization to government and commercial customers worldwide. Please visit [www.northropgrumman.com](http://www.northropgrumman.com) for more information.

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