

# **x**pedition

#### **ENABLING ENTERPRISE LEVEL** COLLABORATION LEARN MORE





Test















### Military / Aerospace







Wednesday, July 09, 2014 | Rockwell Collins



## COLUMNS

#### EVENTS CALENDAR Rockwell, NASA Complete UAS Communications



FIND IT FAST

















- Design and Engineering
- Manufacturing & Systems Assembly
- Fulfillment & After-market EETECHING.COM



operate in the national airspace. "The number of active UAS's is only going to grow in the future," said Alex Postnikov, a principal engineering manager in the Advanced Technology Center (ATC) at Rockwell Collins. "Rockwell Collins and NASA are in an exciting position to ensure there is a safe and secure communications link between the pilot on the ground and the unmanned aircraft in the air.'

With one crew squeezed into a computer-filled bus and another inside an

airborne Lockheed S-3 Viking airplane, experts from Rockwell Collins and NASA teamed up to better determine the future of unmanned aerial systems (UAS) during recent testing conducted at the Eastern lowa

Airport in Cedar Rapids, Iowa. This latest test was the next step in establishing a communication system that will enable UAS to safely

The testing, completed last week, was focused on a data link waveform and the ability of a single tower to communicate to multiple aircraft. The waveform will be released as a public resource to help the industry and the Federal Aviation Administration (FAA) develop an appropriate set of rules and requirements for unmanned operations in the national airspace. Last week's testing was part of the research project's first phase.

"We tested at different altitudes, different frequencies and through different modes of operation," said John Moore, principal systems engineer for Rockwell Collins. "We wanted to see if the system operated as we expected it to. We're happy to say things went very well.

Moore added that our company will participate in research and testing through 2016. The goal is for the FAA to issue a technical standard order for UAS's in 2017.

To learn more about the communication project and the collaboration between Rockwell Collins and NASA, watch this video.









PCB007 SMT Online

SMT CHINA









To sign up for our newsletters, click here.













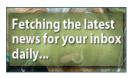














MOST READ

MOST EMAILED

TODAY

THIS WEEK

THIS MONTH From Single-sided to HDI: The "Three Phone Call Method" Works

Global LCD TV Shipments to Gain 3% This Year

Tim's Takeaw ays: Design Rule Checks - For Your Protection

Connecting Graphene and Quantum Computers

Boeing to Build Intelsat 35e EpicNG Satellite

PCB007 | The PCB Magazine | SMTOnline | SMT Magazine | PCBDesign007 | The PCB Design Mag. | FLEX007 | MILAERO007 | PCB007China | EMS007China | PCBDesign007China RealTime with... | About Us | Media Kit | Contact Us | Subscriptions | Press Release Tips | RSS | Your Privacy | Site Map | Advertise | Feedback | Twitter | PCBRC | The PCB List