

## 12TH ICCRTS

“Adapting C2 to the 21st Century”

Results of the Johns Hopkins University Applied Physics  
Laboratory’s C2 Hypotheses Exercise

Tracks 6 or 7

Authors:

Thomas H. “Buck” Buchanan

James Hillman

Robert Leonhard

John Nolen

Point of Contact

Buck Buchanan

JHU/APL

11100 Johns Hopkins Road

Laurel, MD 20723

(443) 778-3865

[thomas.buchanan@jhuapl.edu](mailto:thomas.buchanan@jhuapl.edu)

## Abstract

JHU/APL has built a C2 test bed for developing and testing C2 capabilities. JHU/APL also drafted a C2 Concept to describe to technologists and engineers the likely nature of future C2 environments (this concept was presented at a plenary session of CCRTS last June). The intent of this draft concept is to look beyond current doctrine and operations and to point to future needs and to areas for C2 innovation. To better link concept and engineering, JHU/APL is hosting a C2 Hypotheses and Experimentation Conference 1-2 March 2007 to look for a set of C2 hypotheses to be the basis of testing and experimentation. For example, a hypothesis might be: "If a joint force achieves shared situation awareness, then friendly forces achieve greater velocity in the battlespace." While this hypothesis to be true, testing and experimentation should reveal the extent to which shared awareness improves force performance and the degree of shared awareness necessary to achieve adequate results. Testing of such hypotheses should lead to more informed decisions regarding C2 solutions, balancing capabilities with resources, and identifying key areas for innovation. Conference results will be published in a white paper and be the focus of the June 2007 CCRTS presentation.