

## Candidate for Vice Chair for Meetings and Conferences

Jeff Boleng  
US Air Force Academy, Colorado Springs, CO USA

### **BIOGRAPHY**

#### Academic Background:

Ph.D., Colorado School of Mines, 2002, Mathematical and Computer Sciences.

#### Professional Experience:

Associate Professor of Computer Science, US Air Force Academy, Colorado Springs, CO, 2006 – 2009;

Chief, Netcentric Integration, Air Force Space Command, Colorado Springs, CO, 2005 – 2006;

Commander, 21st Mission Support Squadron, 21st Space Wing, Colorado Springs, CO, 2005.

#### Professional Interest:

Mobile Ad Hoc Networks (MANET); Cyber warfare, computer security, and information assurance; Sensor Networks; High reliability computing and systems; Computational Modeling of Radar Scattering.

#### ACM Activities:

SIGAda Conference Program Chair, SIGAda, 2009.

#### Membership and Offices in Related Organizations:

Co-chair, Workshop on Network Security, IEEE WNS/LCN, 2007 – 2009;

Technical Program Committee Member, IEEE LCN (Local Computer Networking), 2007 – 2009.

#### Awards Received:

Outstanding Academy Educator (USAFA), 2008; AF Space Command (AFSPC) A4/A6 Field Grade Officer of the Year, 2005; AFSPC LtGen Leo Marquez Comm Electronics FGO of the Year, 2004; CFC/US Forces Korea CJ-3 FGO of the Year, 2003.

### **STATEMENT**

Secure, high reliability/availability systems are critical to the world's information and automation infrastructures. System complexity continues to increase exponentially. Cyber crime and cyber warfare incidents are increasing even more rapidly. When combined, these trends create the potential for significant vulnerabilities and failures in our critical

infrastructures and technologies. Ada is one of the key technologies which allow us to deal with increasing complexity and system vulnerability.

We must increase our efforts to attract emerging talent and expose them to the strengths and benefits good design and language features can provide to address the challenges highlighted above. We must go beyond annual conference and provide more opportunities for developing students and professionals to learn and use the Ada programming language. Some of the ways we can approach this is by targeting high school programming and Advanced Placement (AP) curriculum as well as continuing to encourage industry and professional support of Ada use in colleges. The ACM International Collegiate Programming Contest can be a useful conduit to highlight the capabilities and benefits of Ada through a specialized team award and recognition.