

Status Report: August 2019

22nd Annual Systems & Mission Engineering Conference

October 21-24, 2019

***Hilton Downtown Tampa
Tampa FL***

Sponsored by

NDIA Systems Engineering Division

in partnership with

NDIA Integrated Program Management Division

In Conjunction With

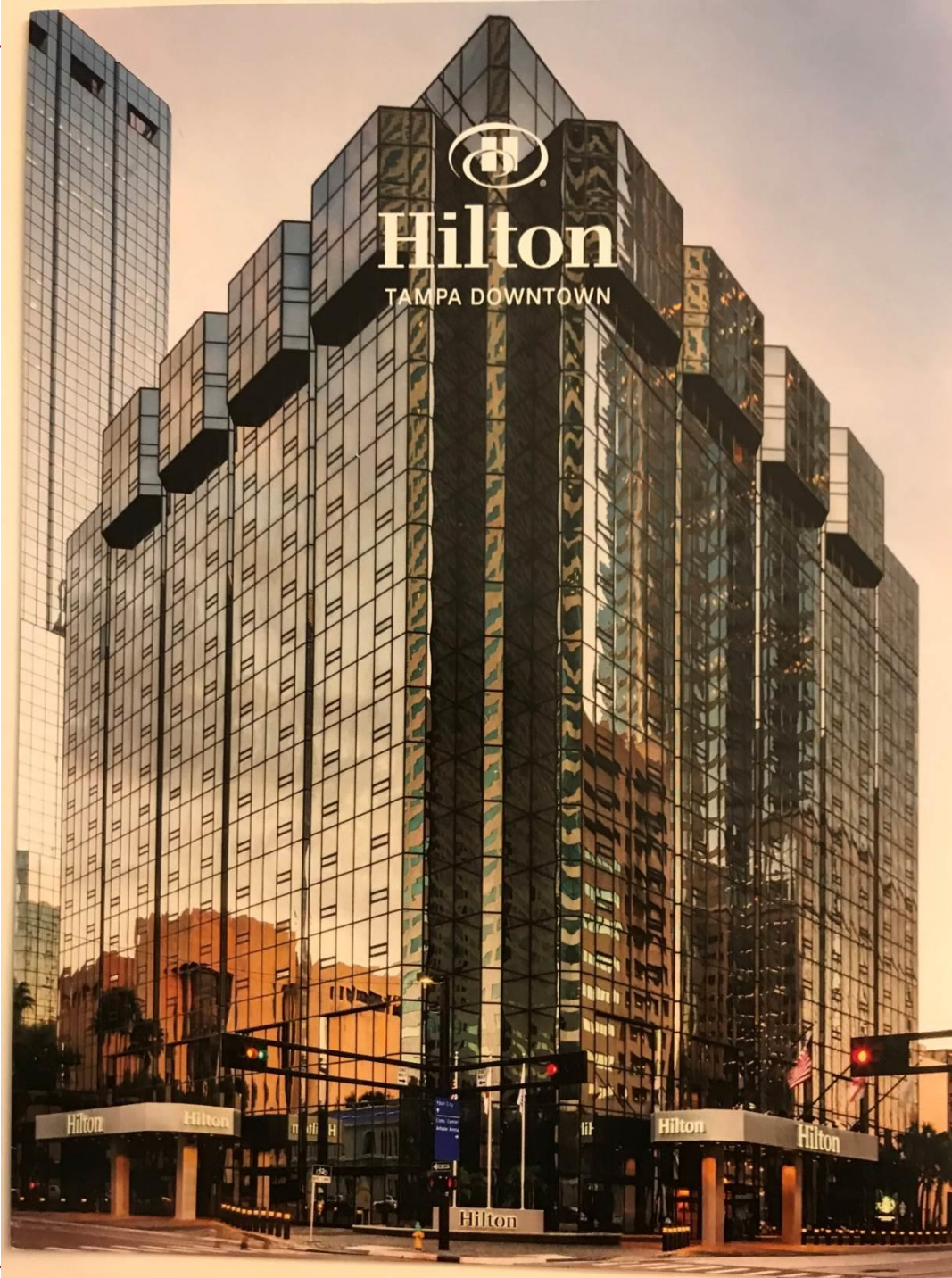
Deputy Assistant Secretary of Defense, Systems Engineering (new titles?)

With participation by

IEEE Systems Council and IEEE Aerospace & Electronic Systems Society

NDIA

National Defense Industrial Association



Call for Papers etc

- **237 abstracts received, including tutorials & panels**
 - 217 in 2018
 - 340 in 2017
- **So far we selected about 230, including 3 tutorials**
- **Preliminary program in NDIA hands to populate**
- **Acceptance notifications went out about 2 weeks ago**

DoD engagement

- Despite a wee bit of turmoil at OSD they are supporting the conference.
- OSD plannd to invite Dr. Michael D. Griffin as keynoter.
 - HON Griffin is Under Secretary of Defense, Research & Engineering, and former NASA Administrator
 - Went with Vice Adm. Jon A. Hill, USN, Director, Missile Defense Agency
- **Planned Plenary Panels:**
 - Prototyping with a Mission Engineering Focus
 - Research & Engineering Modernization Roadmap
 - DoD Program Managers Panel: Platform PMs and System Engineers Challenges
 - Industry Executives Panel on Challenges in Mission Engineering

A few changes

- **OSD will not be doing a Digital Engineering Summit**
- **OSD will not be hosting an MBSE Tool Vendor track**
 - But we could have done one if we organize it ourselves.
 - M&S Committee would have the lead
 - Unfortunately we do not have the meeting space to accommodate

Hotel Reservations

- - - - are not open yet
 - But should be shortly
- **Conference registration IS open**
 - NDIA.org, Meetings & Events,
 - Then Systems Engineering Division, Oct 2019, “Systems Engineering”

S & ME Conference 2020

- **Not yet planned by NDIA**
 - Last week October, Tampa, requested
- **Issue is the IPMD annual meeting**
 - Since they canceled their conference and integrated with our conference, NDIA is trying to see if they can do their annual meeting in conjunction with the conference, which means a bigger hotel
- **Stay tuned. CRITICAL to have 2020 site & dates in place by 2019 conference.**



IEEE Systems Security Symposium

SYSTEMS SECURITY
symposium

April 6-9, 2020

Primary Sponsorship by IEEE Systems Council and IEEE Aerospace & Electronic Systems Society

Technical co-sponsorship by INCOSE, NDIA Systems Engineering Division and Cyber Security Division, Systems Engineering Research Center (SERC), and University of Virginia

In cooperation with

Office of the Under Secretary of Defense for Research and Engineering (OUSD(R&E))

SSS 2020

- **Marriott Crystal Gateway Hotel, Crystal City VA**
- **April 6-9 2020**
- **Holly Dunlap is technical program chair; Beth Wilson is Technical Program co-chair.**
- **Support offered from Kristen Baldwin, OSD**
- **NIST has been invited**

Scope

The IEEE-INCOS-NDIA Systems Security Symposium seeks research papers and application studies that focus on the development of secure, safe, and resilient systems.

This symposium attempts to address the convergence of cybersecurity, safety, and engineering with interest in the effective application of security principles, methods, and tools to complex systems such as cyber-physical systems, autonomous systems, transportation vehicles, medical devices, large IoT systems, and other systems of interest.

Preference will be given to papers and case studies that bridge theory to practice.

Specific Topics 1

- Systems Security Work Focused on Advancements in Theory, Practice, & Education
- Engineering of Safe, Secure, & Resilient Systems
- Examples of Mission/Systems Assurance & Assurance Cases
- Model Based Engineering Focused on Security, Safety, Trust, & Resiliency
- Affordable & Scalable Approaches to Hardware, Software, Firmware Assurance
- Novel Architecture Design & Analysis Examples or Trade-Space Studies
- Trust of Complex Systems with Emphasis on Cyber-Physical Systems
- Security Considerations for Machine Learning / Artificial Intelligence
- Large-Scale DevSecOps & Agile Approaches for System Development
- Verification, Validation, & Evidences for Secure System Development

Specific Topics 2

- System Security Design Considerations for Cloud Environments
- Extensions of Formal Methods to System-Level Evaluation
- Cybersecurity in Manufacturing & Supply Chains
- Case Studies to Include Automotive, Transportation, Space, & Others
- Cyber-Physical System Event Detection, Investigation, Forensics, & Malware Analysis
- Tailored Risk Management Approaches for Large Complex Systems
- Attack/Defense Modeling, Simulation, & Characterization
- Techniques for Cyber Risk Buy Down in Legacy Systems Infrastructure, & Enterprises
- Policy, Ethical, Legal, Privacy, Economic, & Social Issues

Additional Info

Two types of submissions requested:

Theory & Methods

Papers or Extended Abstracts addressing novel ideas, theoretical issues, technology, methodology, or detailed studies. These academic-oriented papers will be peer reviewed and prioritized according to their contribution.

Cases & Practical Experiences

Papers presenting practical ideas, lessons learned, and real-world achievements. Papers are reviewed for relevance but not necessarily academic contribution.

<https://2020.ieeesystemssecuritysymposium.org>



DATES:
July 31, 2019
Special Sessions &
Tutorial Proposals
August 30, 2019
Initial Papers and
Extended Abstracts