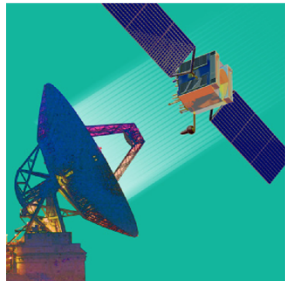# Working Group Outbrief

## Ground System Architectures Workshop

### Session 11E

Emerging Technologies: Protections or Pitfalls

*Scott Niebuhr, The Aerospace Corporation*

*Michelle Yohannes, The Aerospace Corporation*

## Session Goals

Bring together the civil, commercial, defense, law enforcement, and intelligence communities to discuss emerging technologies, resilient architectures, enterprise agility, and collective collaboration.

Possible topics:

- Artificial Intelligence & Machine Learning
- Honeypots/Honeynets
- Malware Detection using Sequence Classification
- Internet of Things (IoT)
- Quantum Cryptography
- Microsegmenation of Networks
- Disposable Computing
- Blockchain

**Brandon Baily**
*Cybersecurity Group Lead,, NASA*

**Matthew Miller**
*Vice-President, Vertical Discovery Corp*

**Dawn Saenz**
*Director of Recruiting & Staffing, CyberSN*

**Stacey Anfuso**
*CEO & Founder of La Jolla Logic*

**Special Agent Chris Pluhar**
*FBI Los Angeles CY-3*

**James Faria**
*Senior Project Engineer, The Aerospace Corporation*

**Nicholas Cohen**
*Senior Engineering Specialist, The Aerospace Corporation*

**Ashley Broussard**
*Industrial Lead, Darktrace*

**Dan Fien**
*Senior Cyber Technology Lead, Darktrace*

**Zoltan Horvath**
*Director of Technology and Government Programs, Maxar Technologies*

**John Murgo**
*Founder & CEO of Digital Immunity*

## Key Points

- Tools & Resources
- Artificial Intelligence & Machine Learning
- Encryption - Hardware vs. Software
- Root of Trust & Operating in a Zero Trust Environment
- Cyber Talent
- Threats & Vulnerabilities

- Back to the Basics with Cyber Security:  Defense in Depth – "The application is the new perimeter"

- Benefits & Drawback to Artificial Intelligence & Machine Learning

- Need for More Cyber Threat Information Sharing

- Cyber Talent – Positive Trends in Software Development & Hiring/Retention Tips

- RMF – Need to honor the spirit of RMF, not just the "law"