

# Space and Missile Systems Center

## AFCEA Luncheon

### Advanced Systems & Development Directorate Overview



Col Troy Brashear  
SMC/AD Director



SPACE AND MISSILE SYSTEMS CENTER





# AD Mission and Vision



*SPACE AND MISSILE SYSTEMS CENTER*

## Mission

**Drive future Space capabilities through collaborative innovation, development planning and demonstrations.**

## Vision

**An exciting environment envisioning and shaping the future of Space. The Air Force's premier center for advanced systems and developmental planning—recognized for credibility, analytical rigor, and teamwork.**

# AD Organizational Structure



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**Col Troy Brashear**  
Director/Commander (KAFB)

**Col James Planeaux**  
Chief Architect (LAAFB)



**Col Jeffrey Stutz**  
Deputy Director (KAFB)

**Dr. Roberta Ewart**  
Chief Technologist (LAAFB)



**Ms. Mary Jackson (KAFB)**  
Contracting



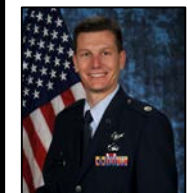
**Ms. Jillyn Howe (KAFB)**  
Management Operations



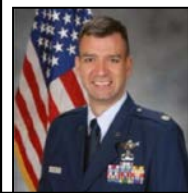
**Mr. Nicholas Merski (KAFB)**  
Systems Engineering



**Ms. Nancy Lingo (KAFB)**  
Program Control



**Col (S) Sean Rucker (LAAFB)**  
Advanced Concepts Division



**Lt Col Mark Brykowytch (LAAFB)**  
Capability Integration &  
Transition Division



**Col Jason Cothorn (KAFB)**  
Space Demonstration  
Division



**Mr. Dan Crouch (KAFB)**  
Ground Systems Division



# AD Core Functions



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## Staff Functions

Leadership

Contracting

Program Control

Management Operations

## Mission Core Functions

SMC Technology Planning

(Rapid Innovation Fund, SBIRs, PEO-TEO, etc.)

Modeling, Simulations, & Analysis

(Develop and run system, engagement, and campaign models for architectures & concepts)

Requirements Analysis

(Quantify desired warfighting effects into system performance objectives)

Concepts Development

(Design & cost solutions to meet reqts)

Develop Architectures & Manage Capability IPTs

(work with capability areas to integrate and evaluate families of concepts against requirements to evaluate effectiveness)

Engineering

Space Test Program

Hosted Payloads

Space Demonstrations

Small/Medium Launch

Advanced Hypersonics

Ground Systems & Space Operations



# AD Strategic Outcomes



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- **Develop and communicate the AFSPC 30-year roadmap**
- **Design the future AFSPC ground enterprise**
- **Synchronize community S&T processes and Demos to advance Space Superiority capabilities**
- **Achieve stakeholder-accepted credibility and decision-maker value; Institutionalize analytical rigor in AD processes**
- **Foster an enthusiastic, high performing workforce built on trust, teamwork, cohesion, and mission pride**



# AD Program Support



*SPACE AND MISSILE SYSTEMS CENTER*

- COMSATCOM Pathfinder (MC)
- Enterprise Ground Services (RS)
- SBIRS Follow On AoA (RS)
- JMS Support (SY)
- EELV Rideshare (LR)
- Engine Tech Maturation Team (LR)
- AFSCN Commercial Provisioning Study (RN)