



**WELCOME TO THE  
2011 ARMY SPACE  
CADRE SYMPOSIUM**

# **THE COMMON GROUND OF SPACE**

What is the Common Ground of Space? This symposium aims to shed light on the many ways Space ties together Warfighters from all services. Space assets are utilized for a myriad of reasons, from making a satellite phone call from a remote location to scouting where the enemy has set up. Space and Missile Defense professionals play critical roles in providing capabilities that touch everyone in the Armed Services. It's important that Space professionals fully understand our parts and how we all tie together. During this symposium, we will explore the various aspects of the Space world and how constantly improving technology helps to define the tremendous contribution Space provides in the defense of our Nation.



# LTG Richard P. Formica

COMMANDING GENERAL  
USASMDC/ARSTRAT

## Symposium Attendees:

Welcome to the 2011 Army Space Cadre Symposium. This symposium is focused on delivering Space capabilities to the Warfighter. Its theme, agenda, and speakers were selected with that in mind.

During the symposium we'll discuss the Army's role in Space – as a user of Space capabilities; the Army's strategy and policy; and the Army as a provider of Space capabilities. You'll also have a very important opportunity to address the Army Profession of Arms, what it means to be a Space professional today and in the future. We'll do this within the theme of **The Common Ground of Space**.

My message to you will be about getting into the fight and operationalizing Space capabilities; being agile and responsive to commanders; and being fully proficient in the capabilities and employment of Army, Joint, and National Space systems for warfighting.

Critical elements such as persistent intelligence, surveillance, and reconnaissance (ISR), integrated Missile Defense, friendly force tracking, and enemy force tracking provide Soldiers with advanced capabilities. Those vital capabilities – Army, Joint, National – are provided to the Warfighter by the Army Space Cadre and our joint counterparts.

Providing Space capabilities to the Soldier requires expert, trained, and agile Space professionals. The Army Space Cadre Symposium is an excellent opportunity to learn and grow as a professional and to build lasting professional relationships with each other.

Take full advantage of this week's agenda and leave here better trained and more ready to provide Space capabilities to the Combatant Commanders and to the Warfighter.

Sincerely,

Richard P. Formica  
Lieutenant General, U.S. Army  
Commanding General

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# CSM Larry S. Turner

COMMAND SERGEANT MAJOR  
USASMDC/ARSTRAT

## Fellow Space Professional:

Welcome to the 2011 Army Space Cadre Symposium. This year's theme is **"The Common Ground of Space."** The term common ground means *"something that people can agree about,"* and I believe this year's theme is becoming more and more relevant when discussing combat operations within the Army.

Since the mid 1990s, when Force XXI Battle Command Brigade and Below (FBCB2) was first fielded, our Soldiers have come to greatly appreciate and value the enhanced situational awareness that Space provides. For the Soldiers and NCOs at the tip-of-the-spear, common ground about Space translates to enhancing their ability to shoot, move, and communicate in combat. What they often do not understand is how Space "fits."

Friendly Force Tracking won't work without GPS. The same is true for precision-guided rockets, bombs, and munitions. Beyond line-of-sight communications is extremely difficult to achieve without satellite communications systems. Up-to-date imagery of areas of operation and enemy movements on the battlefield are much more difficult to obtain without support from Space-enabled systems.

So, I think one of the challenges for the members of the Army Space Cadre is to determine how we should go about educating the everyday Soldier on the value of Space. How do we bring them onto the "common ground of Space?"

I also challenge our Soldiers and Noncommissioned Officers to focus upon how being a "Space Professional," a member of the Army's Space Cadre, fits within the Profession of Arms. We've spent most of the year examining what it means to be a professional Soldier. As you interact during round-table discussions and as you listen to the reports and updates, I urge you to consider the roles and responsibilities of the Soldier and NCO in the Army Space force and how they contribute to the Profession of Arms.

Sincerely,

Larry S. Turner  
CSM, U.S. Army  
Command Sergeant Major

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# Steven L. Messervy

DEPUTY TO THE COMMANDING GENERAL  
USASMDC/ARSTRAT

## To the Space Cadre Symposium Attendees:

Welcome to the 2011 U.S. Army Space and Missile Defense Command/Army Forces Strategic Command (USASMDC/ARSTRAT) Space Cadre Symposium. This year's gathering of the Army's best and brightest Space Cadre – active duty, reserve component, and Civilians – promises to be a great investment of your time and the Army's resources.

Your presence here shows not only your own desire to develop professionally, but also your organization's commitment to build upon your expertise and bring back shared insights from senior leaders and the Army's Space Cadre. This year's symposium supports the Army's deeper examination of the Profession of Arms, and will include insights into what our Army Space professionals do in support of our Army mission. Additionally, you'll get the opportunity to explore **"The Common Ground of Space,"** through the perspectives offered by representatives from the Reserve Component and the Combatant Command Army Service Components.

This annual gathering gives us all the opportunity to integrate across the command and seek a common objective – to ensure our Soldiers achieve mission success that is enabled by a well-trained Space Cadre and assured access to Space-based capabilities.

Lastly, please help us improve future forums. We need your thoughts and recommendations to help next year's professional development forum exceed this year's success!

Sincerely,

Steven L. Messervy  
Senior Executive Service, U.S. Army  
Deputy to the Commanding General

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# COL Timothy R. Coffin

DEPUTY COMMANDER FOR OPERATIONS  
USASMDC/ARSTRAT

## Dear Space Cadre Colleagues:

Welcome to the 2011 Army Space Cadre Symposium. This event is the premier gathering for Army Space professionals. During the week we will learn from, share with, and get to know experts and specialists from inside and outside the Army Space community – including academia, industry, and the other military services.

Our command's Soldiers, Civilians, and Contractors stand on **The Common Ground of Space** – this year's symposium theme. The expression "common ground" means everyone has a similar purpose: to deliver Space capabilities! To do so we must bring together many different disciplines which call on our community to develop, assess, train and indoctrinate on, and employ Space and Missile Defense assets and capabilities to protect U.S. national security and aid the defense of our friends and allies. Make the idea and spirit of common ground a big part of how you think about and exercise cooperation and coordination in the military Space arena.

The theme describes only a portion of what is taking place. I also look forward to the:

- Round table discussions for officers, Civilians, and enlisted members of the Space Cadre,
- Many high-level reports and updates,
- Networking, making and renewing friendships

Also, we will continue the discussion of the Profession of Arms. The Secretary of the Army and the previous Chief of Staff dedicated 2011 to a yearlong examination of what it means to be a professional in a time of persistent conflict. Each of us has a responsibility to lead and teach the Profession of Arms, and you will see some of that here at the symposium. The Profession of Arms is a set of principles to keep in mind and live by throughout your career.

Again, welcome to the symposium and to Colorado Springs. Enjoy your time together, be safe, and take away lots of valuable knowledge and lasting relationships.

Sincerely,

Timothy R. Coffin  
Colonel, U.S. Army  
Deputy Commander for Operations

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# Larry Burger

DIRECTOR

USASMDC/ARSTRAT FUTURE WARFARE CENTER

## Attendees:

Welcome to this year's Army Space Cadre Symposium hosted by the Army Space and Missile Defense Command/Army Forces Strategic Command (USASMDC/ARSTRAT), the Army's specified proponent for Space and Missile Defense.

The Future Warfare Center (FWC) is SMDC/ARSTRAT's agent responsible for ensuring SMDC's second core task – to build future Space and Missile Defense forces – the command's capability development function. Our mission is to develop and integrate innovative DOTMLPF Capabilities for Army and Joint Space, Missile Defense, and High Altitude.

We follow the Army and TRADOC's processes in building future Space forces; primarily using the DOTMLPF construct. We developed Space and Ground Based Midcourse Defense Operations doctrine and Tactics, Techniques, and Procedures; and informed the Army's Operating Concept in accordance with TRADOC direction. We are responsible for developing operational organizations and the force structure for Space and Missile forces, which include both 1st Space and 100th Missile Defense Brigades.

We train and educate the Army's Space professionals, military and Civilian. And we teach Space operations at leader courses at the Command and General Staff College, West Point, and the various branch Centers of Excellence. We are expanding our use of Mobile Training Teams, to help infuse Space into the curriculum and mind set of all Warfighters.

We are the Army's proponent for developing requirements for Space, High Altitude, and Missile Defense Capabilities.

Many of you have already completed, are currently attending, or will attend various FWC Directorate of Training and Doctrine training courses, such as the Space Operations Officer (FA40) Qualification Course (SOOQC).

I look forward to efforts in the future to help us bring Space to the Warfighter and wish you the very best in your careers.

Sincerely,

Laurence H. Burger  
Senior Executive Service, U.S. Army  
Director, Future Warfare Center

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# Debra G. Wymer

DIRECTOR  
TECHNICAL CENTER

**To the esteemed members of the Space Cadre and other symposium attendees:**

I am honored to welcome you to the 2011 Army Space Cadre Symposium hosted by LTG Formica, as the Army's proponent for Space and high altitude capability, and executed by the U.S. Army Space and Missile Defense Command/Army Forces Strategic Command (USASMDC/ARSTRAT).

This year's theme, **The Common Ground of Space**, will encourage members of the Army Space Cadre to unite under the idea that Space serves a common ground, rather than a specific entity, throughout the Department of Defense. Although the Army is the largest user of Space-based capabilities within the Department of Defense, it is important to understand that our sister services are simultaneously providing and using the same capabilities. Together, we form a tightly knit community focused on maximizing the support we can provide to the Warfighter.

As we work to increase the understanding and role of the Army Space Cadre, this annual symposium serves as a forum where military and Civilian members may come together to acquire and share information about new innovations in the Space community. The symposium also provides an unparalleled opportunity for continued education and professional development for individuals.

As Director of the Technical Center at USASMDC/ARSTRAT, I am very pleased to announce that I have been asked to take on a larger role in the functions of the Army Space Cadre as a voting member of the Academic Advisory Board. In this position, I will work to ensure that the academic work being accomplished by scientists and engineers melds well with the knowledge being gained through industry partnerships while meeting the long-term goals of the Army's Space community.

I am looking forward to working more closely with each and every one of you as we move into the future and continue to take positive steps toward achieving the successes that have long supported our Army's role in Space. I want to thank you for your service and commitment to the Army Space Cadre and for taking the time to attend this symposium. Your active participation will help build a stronger USASMDC/ARSTRAT and U.S. Army.

Sincerely,

Debra G. Wymer  
Senior Executive Service, U.S. Army  
Director, Technical Center

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# Michael C. Connolly

DIRECTOR

ARMY SPACE PERSONNEL DEVELOPMENT OFFICE

## Attendees:

Welcome to the 2011 Army Space Cadre Symposium and thank you for taking the time to attend. This year's event will provide you a great opportunity to hear and share what is new in the Army's Space community. Our goal is to provide you with a forum for the continuing education and professional development of all Army Space Cadre members.

Previously, these now annual events focused solely on Functional Area 40 (FA40) Space Operations Officers; however, we have slowly transitioned to encompassing all categories of the Army's Space Cadre. This year's theme, **The Common Ground of Space**, provides a broad insight to all members of the Army Space Cadre and will help us jointly support the service men and women serving in all the military branches, who rely on Space-based capabilities to move, shoot, and communicate.

We want to acknowledge the positive contributions that are made every day by the military and Civilian members of the Space Cadre. Although the 300 FA40 Space Operations Officers form the core of the Cadre, we have also identified over 300 Civilian Space professionals who work Space issues every day along with another 1,745 individuals working in Space Cadre coded billets. Each and every one is equally important in supporting our Army's role in Space. The individuals presenting this year highlight the commonality of Space throughout the Department of Defense. Representing multiple services and agencies, they magnify the strength of the community and symbolize what is in the realm of possibility through a common goal of supporting the Warfighter. It is our intent that the Army Space Cadre be inclusive of all Soldiers and Department of the Army Civilians who have the experience, training, and education to contribute to providing Space-related capabilities.

As we execute this year's symposium, we have already begun the initial plans for our 2012 symposium. We will continue to host these annual events in Colorado Springs and it is our desire to improve each year. If you have ideas or suggestions on how we can improve, please let us know during this symposium.

Thank you again for taking the time to learn and grow with us.

Sincerely,

Michael C. Connolly  
Director, Army Space Personnel  
Development Office

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