



# SMDC / ARSTRAT



**Air Space and Missile Defense Association  
Annual Membership Luncheon  
Huntsville, AL  
26 January 2012  
LTG Formica Remarks as Delivered**

Is this a HOOAH day in Huntsville, or what?

What an impressive place to do this ceremony, surrounded by all these marvels of technology, and in our midst, the heroes that we saw on the Wall earlier. So thanks to the Davidson Space and Rocket Center for hosting this. What a great venue and a great place to be.

Before I start, I do want to acknowledge the Wall of Honor. We miss not having the Hall of Fame in USASMDC/ARSTRAT's headquarters, and the opportunity to see the giants of this business on a daily basis as we walk the hallways. But isn't it wonderful to have it here, reconfigured in such a professional manner and out in the public for all to see.

So I commend Jess Granone and all of those on the Board who had a hand in moving that Wall of Honor here, so we could recognize those folks on a regular basis.

Thanks for letting me join you today to recognize these outstanding honorees and the award winners we just recognized. When I spoke last year, I talked about our organizational vision, and I introduced the notion that our command was uniquely organized and geographically well-positioned here and in Colorado Springs. And that we are well-positioned here in Huntsville because we are co-located with MDA, MSIC, PEO Missiles and Space, PEO Aviation, AMC, AMCOM, NASA, and importantly, the strong tech base that's here in the Tennessee Valley. This ceremony today and these award winners that we just recognized, reflect that talent that's here – and the benefits of being geographically well positioned here in Huntsville.



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When Diane and I arrived here a year ago, it didn't take long for us to realize how much we enjoyed being in the Tennessee Valley. We quickly noted that you provide tremendous, unceasing support to our Soldiers, Veterans and Families. Throughout the year we were honored to participate in a number of events that you sponsored -- welcome home ceremonies, memorial services, parades, and many other activities that commemorated our Active, Reserve and, National Guard Soldiers, our Veterans, and their Families. So for all that you do to support our Soldiers, our Veterans in this community and their Families – thank you!

Also I'd like to thank ASMDA for all you do – as a major sponsor of the Space and Missile Defense Conference; for the work you did with the Civilian Wall of Honor; for awarding over \$50,000 in scholarships and educational grants; for your work with schools – encouraging science and math; and for your participation and sponsorship of Adventures in Engineering; and for recognizing outstanding performers like those here today. You also contributed to many global events and activities that honor our Soldiers and Veterans, and for all of that, I say thank you.

Last year I introduced our Organizational Vision and our three core tasks at this luncheon. That speech set the themes for the command for the year. I'd like to do the same thing this year by first highlighting key activities in 2011 and then sharing our command's priorities for 2012.

- In 2011, we streamlined the command; continuing some initiatives that preceded me. We had the opportunity to create a Deputy position to the Commanding General; we merged two organizations to create a leaner and more efficient Technical Center; and we realigned our Contracting Acquisition Management Office under Army Contracting Command.

- We worked hard to synchronize USASMDC/ARSTAT's activities with the operational work of the Joint Functional Component Command for Integrated Missile Defense (JFCC IMD). And we sustained close, collaborative relationships with the Missile



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Defense Agency. We sought every opportunity to connect to the Army and to next our activities with the Army's enterprise world, and we worked hard to improve relationships with the many stakeholders in space and missile defense.

In our first core task, which is to provide trained and ready Space and Missile Defense forces and capabilities in service to our Warfighter and to our Nation; we call that our Operations Function, the capabilities we provide Today.

- We deployed 12 space support and commercial imagery teams to the theater, bringing to over 70 the number of teams who deployed since the beginning of combat operations in Afghanistan and Iraq;

- We provided Space and Missile Defense capabilities to fifteen Combatant Commander, Warfighter and Mission Rehearsal Exercises;

- We formally activated the AN/TPY-2 Forward Based Mode Radar Missile Defense Detachment in Japan; and we activated and deployed the detachment to Turkey, as part of the Phased Adaptive Approach;

- We provided Friendly Force Tracking data to Joint, Interagency and Coalition Forces around the world, supporting command and control and situational awareness, and tracked over half a million locations a day;

- We provided geospatial intelligence and tailored satellite imagery products to USAFRICOM in support of Operation Odyssey Dawn and to USPACOM in support of Operation Tomodachi; and many other operations and exercises throughout the year, principally to USSTRATCOM, and to other GCCs.

- and we relocated our California-based Wideband SATCOM Ops Center to a new location in Hawaii.

In our second core task, to build future Space and Missile Defense forces, which is our Capability Development Function, those capabilities we provide Tomorrow),



- We provided Space and Missile Defense input to inform and influence the Army 2020 Task Force, the Army Capstone Concept, the Army Operating Concept, all six Warfighting Functional Concepts, and the Profession of Arms Campaign;

- We provided our High Altitude Test Bed Aerostat to support the Army's Network Integration Evaluation and to help mature the Army's tactical Network;

- We led the Army's effort to draft an Army Space Operations White Paper, which will lay the foundation for determining future space capabilities for the Army;

- We expanded our efforts in Ballistic Missile Defense training, and we embarked on a task to integrate space knowledge into Army leader and Soldier development courses;

- We worked closely with the MDA and the rest of the Army to continue the integration of the AN/TPY-2 Forward Based Mode (FBM) Radars and command and control systems, and to deliver this important capability as part of the Ballistic Missile Defense System;

- And we provided modeling and simulation, studies and analysis in support of USSTRATCOM, the Missile Defense Agency, Army Cyber Command and other agencies.

In our third core task – Researching, testing, and integrating Space, Missile Defense, cyber, directed energy, & related technologies -- our Materiel Development Function, the capabilities we provide the day after Tomorrow,

- We successfully completed the orbit of the Army's first nanosatellite -- Space and Missile Defense Command Operational Nanosatellite Effect (SMDC-ONE);

- Our High Energy Laser Technology Demonstrator (HELTD) program completed fabrication and integration in early 2011, completed low power testing, and is preparing for the initial High Power Demonstration with a 10 kW laser in 2012;



- The Long Endurance Multi-Intelligence Vehicle (LEMV) program completed its fabrication and was inflated in June and is progressing toward a first flight early this year, followed by a deployment later this year;

- We successfully conducted the first flight of the Advanced Hypersonic Weapon (AHW), thanks to the great teamwork that not only resided in USASMDC/ARSTRAT, but in AMRDEC and Sandia Labs and others.

- We established a distributed operations capability at the new RTS Operations Center - Huntsville (ROC-H), achieving Full Operational Capability for space operations and Initial Operational Capability for test operations;

- And in 2011, the U.S. Army Kwajalein Atoll was named as one of six Net Zero Energy installations Army-wide to achieve complete energy independence by 2020.

In summary, 2011 was a busy and productive year for SMDC/ARSTRAT. In 2012, we'll continue to provide Space and Missile Defense forces and capabilities to USSTRATCOM, and to the Geographic Combatant Commanders and the Army.

Now you are well aware of the fiscal challenges we face as a nation. And you know that these will lead to force reductions and program changes, and that it will mean a different future for all of us. The recently published strategic defense guidance – “Priorities for the 21<sup>st</sup> Century” reminds us that we need to ensure we can operate in anti-access/area denial scenarios, we must have cross-domain synergy; and with the assurances that our forces can operate effectively in space and cyberspace. And as the USSTRATCOM Commander emphasized recently, we must be able to fight in domains without geographic boundaries.

Space and Missile Defense capabilities are critical to the Army as a decisive force and the Army's ability to execute its role in Unified Land Operations. If the Army wants to be able to shoot, move, and communicate – it needs Space. If the nation wants to be protected from rogue nations' ability to launch ballistic missiles – it needs Missile Defense. If our Joint



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Forces want to fight in domains without geographic boundaries – they will need Space and Missile Defense. I believe exploiting the potential of Space and Missile Defense capabilities will be more important in the future where conflicts may take place in domains without boundaries and where forward presence may be reduced.

So while no one can speak of a growth industry these days, and no one will be immune from efficiency drills, I am confident that the Space and Missile Defense capabilities that USASMDC/ARSTRAT provides and that JFCC IMD integrates are more relevant than ever. And we have a great team providing those capabilities today, tomorrow and the day after tomorrow. Let me spend the last few minutes sharing our priorities for 2012:

First and foremost, we must remain focused on accomplishing our three core tasks while being disciplined stewards of our nation's resources. Providing space and missile defense capabilities to our Warfighters is what we do.

We must ensure our command's activities are nested with STRATCOM and HQDA campaign plans. We will synchronize our SMDC/ARSTRAT and JFCC IMD campaign support plans with the STRATCOM and Army campaign plans, and subsequently align our command priorities with theirs.

In our Operations Function: we will continue to provide Space and Missile Defense forces and capabilities in support of the Combatant Commands and the Warfighter.

- On any given day, we'll have about 850 Operational Forces supporting the Ballistic Missile Defense System and Space Operations around the world -- CONUS-based, forward-stationed or deployed.

- That includes 5 space support and commercial imagery teams that are currently deployed, and another 8 that will deploy in 2012.



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- This year, we will provide space and missile defense forces in support of 11 Combatant Command, Warfighter and Mission Rehearsal Exercises, to include participation in USSTRATCOM's Global Thunder and Global Lightning.

- Our SATCOM operations and planning support, our JTAGS in-theater missile warning, and Friendly Force Tracking will continue to provide critical capabilities to the geographic combatant commanders every day. We must continue that level of support that we provide today, while looking for ways to further exploit those capabilities from those assets.

- In 2012, we will complete a modernization project for our Ft. Detrick-based Wideband Satellite Operations Center, and we have a modernization underway at our other two sites at Ft. Meade Maryland and Landstuhl, Germany.

- We will continue to work with the MDA and the Army to deploy the next AN/TPY-2 Forward Based Mode Radar, as part of the Phased Adaptive Approach.

In our Capability Development Function, we have several DOTMLPF efforts that are important to our Army in 2012:

- We will inform and influence both the Army's Total Army Analysis (TAA) and the Army 2020 study by working closely with HQDA and the Training and Doctrine Command to integrate space, high altitude, and missile defense capabilities in support of future Army operations.

- We will complete the Persistent Platform Capabilities Description Document that will provide a basis for requirements for the Army regarding High Altitude platforms.

- We will, as we've been directed by the Army Space Strategic Plan, complete the Space Operations White Paper and also provide recommendations to the Army based on our assessment of Space Knowledge Training for the Army.



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- We will complete transition of the GMD Operator's Course from the MDA to the Army, and will train over 2800 Space and Missile Defense Soldiers, Civilians, and Joint service members;

- And we will continue to provide studies and analysis support to help inform Army and Joint operational and program decisions.

In our Materiel Development Function, we have several milestones in 2012 for key materiel development efforts:

- Beginning with preparing for the deployment of LEMV to theater in 2012;
- First flight of our low cost ballistic missile target alternative, the Economical Target - 1 (ET-1) in February;
- We'll prepare for the initial High Power Demonstration of the High Energy Laser Mobile Demonstrator (HELMD) with a 10 kW laser in 2012;
- We'll progress toward nanosatellite demonstrations later in the year, including the NRO-sponsored Operationally Unique Technologies Satellite (OUTSat) launch this summer;
- We'll provide innovative technology in support of the Joint IED Defeat Organization.
- And we will sustain our space tracking operations and test support at the U.S. Army Kwajalein Atoll/Reagan Test Site (USAKA/RTS), as we develop an Army strategy for long term sustainment of this strategic asset for the nation.

Those are just some of the significant initiatives that we'll focus on in 2012. To accomplish everything we do, we must continue to recruit, retain, and support our high-performing team of Soldiers, Civilians, contractors - and the Families that support them. We are all about providing capabilities and we're all about developing public servants.

USASMDC/ARSTRAT is a diverse, complex and global command that provides critical capabilities to our Army, to USSTRATCOM, to the Geographic Combatant



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Commanders and the Warfighter. I am very proud of the Soldiers, Civilians, and contractors at USASMD/ARSTRAT that are on our team – and that are focused on accomplishing our mission, in concert with you – the Associations like you, and our other partners in industry, academia, and the other federal agencies.

I began with my remarks today with the recognition of our command being uniquely organized and geographically well-positioned - with the collaborative relationships we have here with our Redstone partners, and with the strong tech base in Huntsville as well as the tech base in Colorado Springs. Your attendance here today, and your recognition of these award recipients, is a further reminder of the dedicated efforts of that partnership that we share with this community -- and organizations like ASMDA, our corporate partners, our civic and community leaders, and our government stakeholders.

We at USASMD/ARSTRAT look forward to the challenges and opportunities in 2012, and we look forward to the opportunity to serve alongside you, as we provide space and missile defense capabilities to our Warfighter today, tomorrow and the day after tomorrow. Army Strong! Hooah!