

April 2015

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# RED LEG Update

The United States Army Field Artillery Branch's Newsletter

## FROM the CMDT's DESK FIRES CONFERENCE 2015

"Leveling the Bubbles: Training and  
Educating the Future Fires Force"

Sill takes on  
Fires Targeting  
Mission

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**Purpose:** Founded in 2011, the *Redleg Update* provides past and present Field Artillery leaders with a monthly update of informational highlights to assist in their individual, collective and professional training efforts, as well as report on activities occurring throughout the Field Artillery community.

**Official Distribution:** The *Redleg Update* is distributed by the Commandant of the U.S. Army Field Artillery to key members of the Field Artillery chain of command across the U.S. Army. Past and current editions are also archived on FKN @

<https://www.us.army.mil/suite/files/34549741>

## William A. Turner

William A. Turner  
Brigadier General, U.S. Army  
Commandant,  
United States Army Field Artillery School

**RFIs, Notes, and Notices:** To submit a Request for Information (RFI), please email the POC listed below.

**Points of Contact:** We appreciate those who have provided announcements, notices, articles and lessons learned.

Additionally, if you have a story of interest or wish to initiate a discussion on any topic or issue facing the Field Artillery community, contact Mr. John Folland, (580) 558-0831, or the editor of the *Redleg Update*, Ms. Sharon McBride, Field Artillery STRATCOM officer, (580) 558-0836.

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## ON THE COVER:

Dragoons assigned to Archer Battery, Field Artillery Squadron, 2nd Cavalry Regiment participate in a live-fire exercise where they have staged their M777 Howitzers while awaiting further instructions from their forward observers whom relay target acquisition and firing instructions in support of Troopers assigned to 4th Sqdn, 2 CR during their field exercise at Grafenwoehr Training Area, located near Rose Barracks, Germany.  
U.S. Army photo by Sgt. William Tanner, 2nd Cavalry Regiment

# From the Commandant's desk

## Fires Conference 2015

“Leveling the Bubbles: Training and Educating the Future Fires Force”

In May, Field Artillery leaders from around the world will gather at Fort Sill, Okla. for the 2015 Fires Conference. In past years, the conference has been a great event, providing a professional venue where Field Artillerymen and women have exchanged ideas and discussed the way ahead.

This year's conference promises to be more dynamic, with planned events and discussions focused on training and educating our future Fires Leaders and Soldiers. If you cannot be here in person, please make plans to join in the discussion virtually through Defense Connect Online, for more information about this year's conference and how to attend virtually go online @ <http://sill-www.army.mil/fires-conference/>.

The Field Artillery portion of the Fires Conference is scheduled for May 6, starting at 8:40 a.m. The DCO link is @

<https://connect.dco.dod.mil/fires-conference-2015-fa-breakout/>.

There is also information on {Page 5} about how to connect virtually during this year's conference.

In 2014, we carried out implementing our new force design with standing up the Division Artillery (DIVARTY) and providing a new emphasis on the Field Artillery Brigade. In the past nine months, seven of our 10 DIVARTYs have stood up, with total implementation scheduled to be completed across the Force by first quarter FY'16. 1st Armored Division, 10th Mountain Division, and 4th Infantry Division will complete the activations over the next several months. Beyond improving support to the Maneuver commander, the DIVARTY force structure has better enabled us to take personal responsibility for training all our Field Artillerymen and women in both Field Artillery and Fire Support critical tasks.

While our DIVARTYs are standing up, simultaneously our FAB leaders have been organizing, training and equipping their units. The FA Brigade provides integrated FA capability to the Corps, Joint Task Force and the Joint Force Land Component Commander and provided reinforcing capabilities to Divisions employing Joint and Army Fires.

Training and leader development, especially in how these topics relate to Operational Fires, will be the main emphasis during this year's Field Artillery conference.

To quote TRADOC Pam 525-3-4, the *United States Army Functional Concept for Fires*, we have a responsibility to establish and maintain a fire support system that can, “enable the defeat of a wide range of threats, provide timely and responsive fires in environmental and operational conditions, provide a range of precision to conventional scalable capabilities to engage ground targets, prevent fratricide and minimize collateral damage.” Ultimately, it must be a fire support system that provides access to and integrates Joint, Army, and multinational Fires capabilities at the lowest appropriate levels.

We are aggressively addressing this requirement for Operational Fires and have proposed that Operational Fires should be conducted as a part of the Commander's operational design. This will allow the commander to achieve his desired effects on the enemy in a manner that does not require detailed integration with the scheme of subordinate Maneuver elements. Operational Fires, as opposed to Close Supporting Fires, are usually conducted at the operational level of war, but may be conducted at any level of war.

Additionally, another topic of discussion will be lessons learned in relationship to how we are conducting Unit Certifications in order to better support the Maneuver Commander in executing Combined Arms Maneuver Wide Area Security (CAMWAS) missions. With the revamping of the DIVARTY, and placing a re-emphasis on our FABs, we have experienced some growing pains jumpstarting our certification programs, but we have also achieved much success.

We will also share what we are doing here at Fort Sill to aide in this process of conducting training and

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# Bubbles...continued from Page 3

certifications and look forward to receiving feedback on how best to support our Fires formations. Our DIVARTYs have done an outstanding job organizing, equipping, and training their units, and I am confident the commanders and CSMs of these formations will have a lot to add to this year's discussion.

The past six months, we have been working to re-vamp the education that we give our Fire Supporters here at Fort Sill, Okla. In doing so we have re-defined what a 13F (Fire Support Specialist) is, and what that military occupational specialty (MOS) does. We have placed an increased emphasis on precision and the Joint fight. Likewise we have leveraged Interactive Multimedia Instruction (IMI) to improve our Gunnery instruction in order to give our students the best founda-

tion possible in Gunnery skills.

My intent for all commanders and leaders is to have a professional dialogue on the status of our FA force, challenges faced and methods used to address those challenges and to share best practices across all of our formations.

The 2015 Fires Conference is a great opportunity for us to gather together as professionals and discuss the way head. I hope to see you there in May.

## King of Battle! Fires Strong!

*Brigadier General William A. Turner*

### THIS MONTH IN HISTORY "APRIL"

**6 April 1978**, 1Lt Elizabeth A. Tourville became the first female commissioned officer in the Field Artillery upon transferring from the Ordnance Branch. She attended FAOBC 10-78 where she served as class leader and later graduated from the Pershing Officer Course.

**10 April 1941**, Lieutenant Colonel H.L.C. Jones, director of the Gunnery Department, Field Artillery School, demonstrated the fire direction center to the Chief of Staff of the Army, General George C. Marshall, convincing him to adopt it.

**15 April 1953**, Officer Candidate School area was named "Robinson Barracks" in honor of 1Lt James E. Robinson, Jr., a graduate of the Field Artillery Officer Candidate School.

**20 April 2009**, Seven FA units (HHB 3ID DIVARTY, 1-9 FA, 1-10 FA, C/3-13 FA, 1-39 FA, 1-41 FA, and 2-319 FA) were awarded the Presidential Unit Citation for actions during the Liberation of Iraq Campaign.

**30 April 1976**, The Department of the Army approved counterfire doctrine and the FIST.

## TRADOC Capabilities Manager Field Artillery Brigade – DIVARTY (TCM FAB-D)

We've been working to update our Fires Knowledge Network (FKN) web page to provide updates from the DIVARTY/FA BDE Commander's Forum, the Pre Command Course Brief, and our weapons

systems. You can now access that information and more under our "Knowledge Center Tab."

We're working to keep this page current with the most updated releasable documents.



You can find us through the FKN Website or directly via this link <https://www.us.army.mil/suite/page/91287>



# FIRES CONFERENCE 2015

“Leveling the Bubbles: Training and Educating the Future Fires Force”

4-6 May 2015 | Fires Center of Excellence | Fort Sill, OK



## (6 May) (0840-1200) FA CMTDT Breakout

If you are not able to attend personally we encourage that you attend virtually by using Defense Connect Online.

ALL virtual attendees must have an active account with Defense Connect Online in order to view conference briefings in real-time. A short tutorial for users without existing DCO accounts can be found here @ <https://www.us.army.mil/suite/doc/27296042> (AKO Login Required).

Users must logon with DCO account credentials. “GUEST” logins WILL NOT be accepted by the Room Administrator.

Video and microphone functions inside the DCO room will be disabled by the room administrator. All user interface will be limited to the chat function. Chat comments MUST be limited to questions regarding seminar subject material or to report technical difficulty. The sheer number of virtual attendees will not allow for personal chat between users while monitoring the conference presentations.

Questions are welcomed and encouraged during scheduled seminar topics of discussion. Queries through the chat function must include the user’s NAME, RANK, UNIT, LOCATION and email address to ensure effective answers are provided.

(4-6 May) (0830-1630) FCoE level briefings will be hosted using the following NIPR DCO link - Room Name - 2015 FIRES CONFERENCE @

<https://connect.dco.dod.mil/fires-conference2015/>

(6 May) (0840-1200) Fires Conference 2015 FA CMTDT Breakout. URL:

<https://connect.dco.dod.mil/fires-conference-2015-fa-breakout/>

(6 May) (0840-1200) Fires Conference 2015 ADA CMTDT Breakout. URL:

<https://connect.dco.dod.mil/fires-conference-2015-ada-breakout/>

Simply click on the link, and logon using your DCO credentials.

POCs are Mr. Jerry Wolfe ([jerry.wolfe@us.army.mil](mailto:jerry.wolfe@us.army.mil)), 580-442-8353 or Mr. Ruel Waldrep ([ruel.l.waldrep.ctr@mail.mil](mailto:ruel.l.waldrep.ctr@mail.mil)), at 580-442-2874.

# Sill takes on Fires Targeting Mission

By Marie Berbera, *The Cannoneer*

The Fires Center of Excellence is taking aim at bringing the Army in line with joint force targeting standards.

The Joint and Combined Integrated Directorate (JACI) transformed into the Fires Targeting Center (FTC) March 2, with the mission of addressing Army targeting doctrine, policy, and program oversight within the joint community.

Col. Thomas Williams, FTC director, said JACI “served its primary purpose of identifying essential wartime requirements to integrate joint fires into joint combined arms operations and ensuring Soldiers and leaders were prepared to meet those requirements.”

He said the FTC will serve a similar purpose as the joint force continues to evolve its targeting requirements, doctrine, and capabilities.

Targeting is the process of selecting and prioritizing targets and matching the appropriate response to them, considering operational requirements and capabilities.

“It’s where we need to go,” said Chief Warrant Officer 4 Houston Burke of the FTC.

Burke said the goal is to streamline the Army’s targeting activity with joint efforts on the battlefield that supports the Chief of Staff of the Army’s vision.

## Targeting needs

Training and Doctrine Command tasked the FCoE to conduct an Operational Targeting Study last May to identify gaps in Army targeting.

They compared the Army’s abilities against the Naval Strike and Air Warfare Center and the Air Force Targeting Center, focusing on areas such as target intelligence; target validation; developing no-strike entities, and conducting collateral damage estimation.

The three recommendations from the study were to establish a targeting center, assign proponenty over targeting matters to the Fires Center of Excellence, and conduct leadership education focused on targeting.

“The goal is to go Army-wide because targeting is bigger than the fires warfighting function. It actually encompasses intelligence, cyberspace, military information support operations, mission command and others,” said Chief Warrant Officer 5 Robert Tisdale, FTC.

“What (Maj. Gen. John Rossi) has done is stand up the Fires Targeting Center while we seek Army approval for an Army Targeting Center,” Tisdale said.

Targeting is already one of the tasks of the fires warfighting function that Soldiers learn and focus on here at Fort Sill, but Tisdale said there is currently no targeting proponent identified to represent the Army at joint targeting forums and policy discussions.

“The Air Force has a targeting center; the Navy has a targeting center. We don’t have an Army Targeting Center so our efforts do not match up with the rest of the joint force. Additionally, there is no single voice representing the entire Army,” said Tisdale.

The push for focused targeting

doctrine may change training here at Fort Sill, but Tisdale said they are not at that juncture yet. Right now the FTC is working to align Army doctrine with joint force doctrine.

Tisdale has been the lead for this effort for the last several years and said his experience downrange showed him the shortcomings of not meeting the required joint targeting standards when working with the Air Force and National Geospatial-Intelligence Agency.

Tisdale explained that “Joint forces have no problem accepting Army targeting data in a dynamic situation but they are less willing to accept our targeting data in a deliberate or pre-planned situation. In the past when we asked for a specific effect on a planned target, they would balk at the work we had done because we were not certified to joint targeting standards.”

Tisdale said that while Fort Sill trains Soldiers on some of the certifications necessary to get support for engaging targets, like Collateral Damage Estimation and Target Mensuration Only, the Army needs an accredited program to achieve the certifications necessary to populate the Modernized Integrated Database, which serves as the Department of Defense’s target list.

“Targeting information gets fed into the database and everything that’s attacked is pulled out of the database. But we can’t populate the database because we’re not certified. We need the Targeting

Continued on Page 7, see Targeting





# Targeting...continued from Page 6

Center to help the Army employ joint fires to effect the ground force nominated targets in support of our troops on the ground.”

Tisdale said the FTC has been years in the making to include the efforts of the last four Field Artillery commandants; the last three FCoE commanding generals; four JACI directors and numerous targeting warrant officers.

Rossi has briefed the Training and Doctrine Command who approved moving the Army Targeting Center initiative forward for

consideration and approval by the Department of the Army.

**Editor’s Note:** *The Fires Targeting Center is approved by TRADOC and is IOC now. We are looking to later transform into the Army Targeting Center--but that requires DA approval. The definition of IOC has yet to be endorsed, but the ATC will represent the Army in the Joint environment and will be a joint accredited agency. It will be the Army’s lead for joint targeting issues to include Army targeting doctrine and policy and it will manage the Army’s targeting*

*certification programs.*

*ATC may reach IOC upon DA approval of an ATC concept proposal in late 3Q or 4Q FY15. If not then, upon DA approval of an ATC CONPLAN in 4Q15. If all goes well with the Targeting Working group and DA, we hope for the ATC to be IOC by 4QFY15 and hold the CTSSB in 1QFY16.*

*Target related training now falls under the purview of COL Delaney and 428 FA BDE. The FTC maintains overall program oversight required by joint accreditation authorities.*

## Find the CSM of the Field Artillery on Facebook



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# The New MACS Propellant Efficiency List Version 6-01 (6 pages, dated 06 JAN 2015) is now available for download from the Conventional Ammunition website!

Artillery Scales (Graphical Firing Tables and Graphical Site Tables) are available to support use of the Modular Artillery Charge System (MACS) by 155mm Artillery Units. These scales are required for manual gunnery and safety computations when using the MACS M231, M232 and M232A1. They also can be used with the M119 (7R) and M203 (8S) bag propellant charges. The scales are used to determine and/or verify projectile range, fuze settings and other trajectory factors. The following projectiles are supported:

- M107 family including M825A1, M449A1
- M795 family including M825A1, M483A1
- M485A2 (Illumination)
- M549A1 (Rocket-On)

The scales are available in "sets". Each set is packaged in a cloth carrying case. The complete MACS GFTs/GSTs consist of 11 sets that are each identified by a unique National Stock Number (NSN). Additionally, each scale is identified by a unique NSN that is printed on the scale. Distribution of the "sets" will be based on providing a maximum of 8 complete MACS GFTs/GSTs per Artillery Battalion. The following table is a listing of the applicable MACS NSNs.

MACS ARTILLERY SCALES		
Set NSNs (1)	Component NSNs (2)	Type,Projectile,Angle/Charges (3)
1220-01-533-0809	Consists of: 1220-01-533-6901	GFT,M107,LA/M231
	1220-01-533-6900	GFT,M107,LA/M232,M232A1
1220-01-533-0813	<i>same as Set NSN</i>	GFT,M107,HA/M231,M232,M232A1,7R
1220-01-533-0814	<i>same as Set NSN</i>	GST,M107,LA/Slide 1: M231,M232A1 Slide 2: M232,7R
1220-01-561-9231	<i>same as Set NSN</i>	GFT,M107,M485A2,LA/7R
1220-01-526-8952	Consists of: 1220-01-539-4500	GFT,M795,LA/M231
	1220-01-539-4504	GFT,M795,LA/M232,M232A1
	1220-01-539-4502	GFT,M795,LA/M232,M232A1,7R,8S
1220-01-526-8951	<i>same as Set NSN</i>	GFT,M795,HA/M231,M232,M232A1,7R,8S
1220-01-526-8955	<i>same as Set NSN</i>	GST,M795,LA/Slide 1: M231,M232,M232A1 Slide 2: M232,7R,8S
1220-01-554-7378	Consists of: 1220-01-537-6987	GFT,M485A2,LA/M231
	1220-01-537-6988	GFT,M485A2,LA/M232
	1220-01-538-0192	GFT,M485A2,LA/M232A1
1220-01-554-7382	Consists of: 1220-01-551-5425	GFT,M549A1,LA/M232,M232A1
	1220-01-551-5430	GFT,M549A1,LA/M232,M232A1,7R,8S
1220-01-551-5419	<i>same as Set NSN</i>	GFT,M549A1,HA/M232,M232A1,7R,8S
1220-01-551-5422	<i>same as Set NSN</i>	GST,M549A1,LA/Slide 1: M232,7R Slide 2: M232A1,8S

**Notes:**

1. MACS artillery scale set consists of one each of items identified by NSNs in column 1 and the appropriate number of GFT Visual User Guides (2 Guides per set or 20 Guides per Artillery Battalion issue of 8 sets).
2. Scales are contained in carrying cases identified by part nos. 7655870 (GST) and 10549929 (GFT).

*Units requiring MACS GFTs/GSTs should contact the Weapons System Support Manager, Karen Blevins, at the Defense Logistics Agency, Columbus, OH. She can be reached by e-mail <Karen.dever.blevins@dla.mil> or by phone at DSN 850.7663, Commercial is 614.692.7663.*

This is the GFT/GST list, but there are other good things at the site like a conversion chart from GB/WB to MACS, too.



Log on @

<https://picac2cs9.pica.army.mil/ConventionalAmmo/ProductInformation/Macs/MacsHome.aspx>