

# 20th CBRNE COMMAND

Chemical, biological, radiological, nuclear, explosives



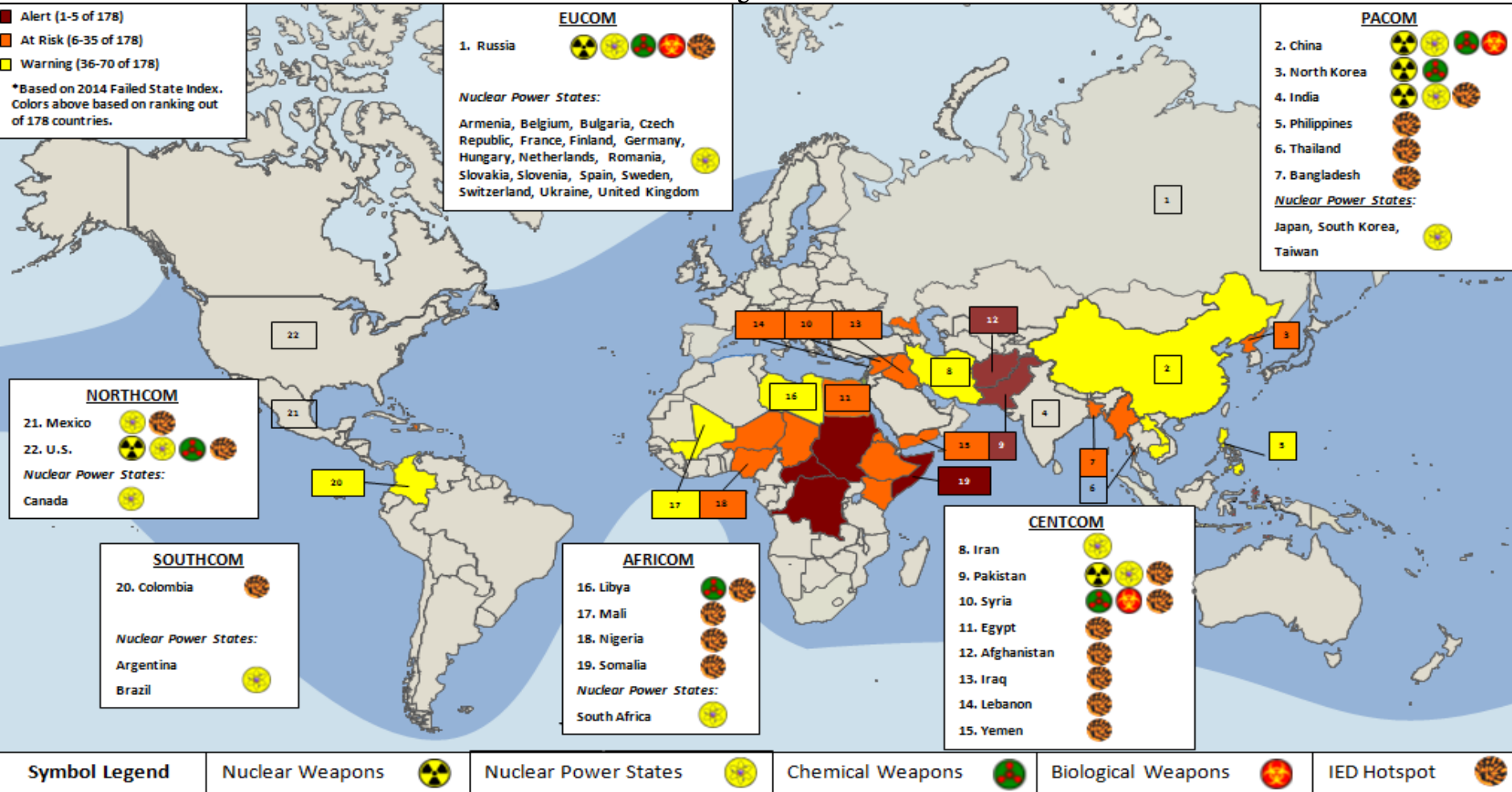
Briefing to:

National defense Industrial association

Presented BY:

BG William E. King, IV - Commanding General

# Global Nature of CBRNE Threats



Accelerating technology and increased connectivity enables greater ease in the development and employment of the CBRNE capabilities, resulting in an increasingly complex threat profile.

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## DEFINING “CBRNE”

## CHEMICAL



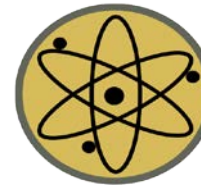
## BIOLOGICAL



## RADIOLOGICAL



## NUCLEAR



## EXPLOSIVES



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CBRNE: Chemical, Biological, Radiological, Nuclear, and Explosive threats.

The “E” represents the full range of Explosive threats (low to high yield) and captures the critical tasks our EOD Soldiers perform (unexploded ordnance to improvised explosive device (IED) defeat).





CHEMICAL



## ❖ Warfare agents, toxic industrial chemicals/materials, chemical plants

### UK Man Charged With Attempting to Obtain Chemical Weapon

LONDON — Feb 16, 2015, 3:04 PM ET

British police say a man from northwest England has been charged with trying to obtain a chemical weapon.

Greater Manchester Police says Mohammed Ammer Ali, from Liverpool, was arrested after officers raid properties in the city last week as part of a counter-terrorism operation.

### Terror threats at chemical plants underestimated

AP By HOPE YEN  
July 30, 2014 5:07 PM



This April 18, 2013 file photo shows an aerial view of the remains of a fertilizer plant and an apartment complex to th...





BIOLOGICAL



## ❖ Weaponized agents, biotoxins, endemic disease

### Former College Student Sentenced to One Year in Prison for Unregistered Possession of Ricin

*Toxin Found Last Winter in His Dorm Room*

U.S. Attorney's Office  
November 10, 2014

District of Columbia  
(202) 252-6933

WASHINGTON—Daniel Milzman, 20, was sentenced today to one year and one day in prison on a federal offense stemming from the discovery of a plastic bag of lethal ricin in a dormitory room where he was staying while he was a student at Georgetown University.

The sentencing was announced by U.S. Attorney Ronald C. Machen Jr. and Andrew G. McCabe, Assistant Director in Charge of the FBI's Washington Field Office.

Milzman, of Bethesda, Md., pled guilty in September 2014 in the U.S. District Court for the District of Columbia to a charge of unregistered possession of a biological agent or toxin. He was sentenced by the Honorable Ketanji Brown Jackson. The plea agreement, which was contingent upon the Court's approval, called for a prison sentence falling somewhere within the range of a year and a day to two years of incarceration.

### 1st Area Medical Laboratory to deploy for Ebola mission

October 9, 2014

By Walter T. Ham IV, 20th CBRNE Command Public Affairs







## RADIOLOGICAL



- ❖ Radiological dispersal devices (dirty bombs), medical and industrial radioactive sources

## Mexico recovers stolen radioactive material

General Sources Wednesday 4th February, 2015

MEXICO CITY (AP) -- Mexican authorities have recovered three stolen pickups carrying radioactive material. The head of the national civil defense office, Luis Felipe Puente, said Tuesday the trucks and their cargo were stolen in Guanajuato state and later recovered in Hidalgo. Puente said the material, Iridium-192 used in industrial radiography, could have been dangerous if the containers were opened. Puente was initially holding the news conference to alert the public to the theft, but before he finished word arrived that the trucks had been located. It was the fourth case of stolen radioactive materials in Mexico in just more than a year. In each case, authorities said the thieves were trying to steal vehicles, not radioactive material....

## Missing radioactive material may pose 'dirty bomb' threat: IAEA

BY FREDRIK DAHL

VIENNA | Fri Mar 21, 2014 12:32pm EDT

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NUCLEAR



- ❖ Weapons, improvised devices, nuclear infrastructure (power plants, research reactors, reprocessing facilities)

## Nuclear Reactors in U.S. Seen at Risk of Terrorist Attack



## Russia Orders Snap Test of Nuclear Missiles

BY DAMIEN SHARKOV 1/20/15 AT 10:35 AM







## EXPLOSIVES



## ❖ Low to high yield, conventional, and improvised devices

### The Afghanistan War's Most Lasting Legacy: The IED

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### Pentagon warns that US faces IED threat at home

The roadside bombs (improvised explosive devices) so deadly to US troops in Afghanistan are also being deployed against Americans at home, as the Pentagon adapts wartime strategies to help counter the threat.

By Anna Mulrine, Staff writer | JULY 17, 2012



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## The HYBRID CBRNE Threat

The nexus of ideology, technology, and CBRNE materials (weaponized and industrial/commercial sources) by state and non-state actors is a clear threat. CBRNE hazards can result as well from natural disasters, endemic disease outbreaks, and humanitarian crises.

### JRTC training evolves with hybrid, conventional threats

Story

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Posted: Thursday, October 2, 2014 6:00 pm

by Nancy Jones-Bonbrest, PEO C3T

FORT POLK, La. —When the 3rd Brigade Combat Team "Rakkasans," 101st Airborne Division, descended from the night sky into the Joint Readiness Training Center, last month, it not only marked the first large-scale joint forced entry Air Assault in more than 11 years, it also signaled a larger shift in how the Army executes training missions.

With the number of U.S. forces on the ground in Afghanistan and Iraq shrinking, training is realigning, from pre-deployment to back-to-basics. In implementing the shift, the Army is leveraging lessons learned from more than a decade at war, as well as planning for future contingencies.

The new hybrid threat training model fuses modern rules of engagement with conventional preparation. Known as decisive action training, it doesn't shy away from cyber attacks, insurgent threats and chemical warfare, but instead confronts these complexities head-on.

### Army training to focus more on 'hybrid threats'

By Seth Robson  
Stars and Stripes  
Published: July 26, 2010

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GRAFENWÖHR, Germany — After nearly a decade of fighting insurgents, the Army is shifting its training to focus more on "hybrid threats" — in which an enemy uses a combination of conventional and unconventional warfare.

Since the wars in Iraq and Afghanistan began, Army units have been training for counterinsurgency operations, according to a Joint Multinational Training Command newsletter. But with the U.S. preparing to withdraw its combat troops from Iraq, Army leaders are directing their commanders to conduct "full-spectrum" field exercises, which would include tanks, artillery and the other conventional equipment that has not been used much in the current wars.



M1A1 Abrams tanks from 1-72nd Armor Regiment line up in preparation to assault a town during Warrior Focus, a training exercise at the Combined Arms Collective Training Facility at Rodriguez Live Fire Complex, South Korea. The Army has directed its commanders to start training its soldiers on hybrid threats, which means soldiers will now prepare not

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## Defense Strategic Guidance

Over the past year, a number of dangerous trends have worsened, threatening stability across entire regions.

– 2014 Army Strategic Planning Guidance

The U.S. faces a rapidly changing global security environment that is volatile, unstable, and increasingly threatening.

– Force 2025 and Beyond, Oct 2014

The environment the Army will operate in is unknown. The enemy is unknown, the location is unknown, and the coalitions involved are unknown.

– The U.S. Army Operating Concept, 7 Oct 2014

Increased access to expertise, materials, and technologies heightens the risk that these adversaries will seek, acquire, proliferate, and employ WMD. Instability in states pursuing or possessing WMD or related capabilities could lead to dangerous WMD crises.

– DoD Strategy for CWMD, Jun 2014

The U.S. faces a rapidly changing security environment. We are repositioning to focus on the strategic challenges and opportunities that will define our future: new technologies, new centers of power, and a world that is growing more volatile, more unpredictable, and...more threatening to the U.S.

– Quadrennial Defense Review 2014

The review of the strategic threat and guidance demands that our Army is better able to deliver a force that is adaptive, agile, tailorable, and expeditionary.







Questions?

Contact 20th CBRNE Command (410) 436-0330



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