U.S. Army
U.S. Marine Corps
U.S. Air Force
Special Operations Forces
Defense Supply Center, Philadelphia
Natick Soldier Research, Development & Engineering Center

Advance Planning Brief for Industry
May 19-20, 2010

The Waterford at Springfield
6715 Commerce Street
Springfield, VA 22150

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Advance Planning Brief for Industry
18-20 May 2010

18 May 2010	
5:00 PM – 8:00 PM	**Pre-Registration/Networking Cocktail Hour – Cash Bar**
19 May 2010	
7:00 AM – 9:00 AM	**Registration**
9:00 AM – 9:15 AM	**Welcome**
9:15 AM – 10:00 AM	**Guest Speaker (BG Michael M. Brogan)**
10:00 AM – 11:00 AM	**Key Project Updates** *Army, Marine Corps, Special Forces, Air Force, Natick, Defense Supply Center Philadelphia*
11:00 AM – 11:15 AM	**Break**
11:15 AM – 12:00 PM	**Keynote Speaker (LTG Mitchell Stevenson)**
12:00 PM – 2:00 PM	**Lunch**
2:00 PM – 3:00 PM	**Fire Resistant Clothing**
3:00 PM – 5:00 PM	**Body Armor**
SOCIAL	
5:00 PM – 7:00 PM	**Networking Cocktail Hour – Cash Bar**

Session Briefings are posted at:

http://www.marcorsyscom.usmc.mil/sites/pmice/IArmyUSMCIndustryDay(May10).asp

20 May 2010	
Concurrent Sessions 8:00 AM – 10:00 AM	
Eyewear *Hall 1*	
Army Unique (FoF, MACK, RFI Gear, Army Mountain Kits, Team Stove) *Hall 2*	
Parachutes *Hall 3*	
SOF Unique *Hall 4*	
10:00 AM –10:15 AM	**Break**
10:15 AM – 11:15 AM	
Hydration /Load Carrying Equipment *Hall 1*	
Cold Weather Clothing and Equipment *Hall 2*	
Requirements *Hall 3*	
Ballistic Helmets and Accessories *Hall 4*	
11:15 AM – 12:15 PM	
USMC Unique *Hall 1*	
Footwear *Hall 2*	
Uniforms *Hall 3*	
Handwear *Hall 4*	
CONFERENCE ENDS	

2

LTG Mitchell H. Stevenson

Deputy Chief of Staff, G4

Lieutenant General Mitchell H. Stevenson was born in Linz, Austria, the son of a career Army NCO. He was commissioned a Regular Army Ordnance Officer from the ROTC program at West Virginia University in May 1974. After being detailed Infantry initially, he was made an Ordnance officer in March 1976.

His previous commands include Heavy Maintenance Company, 701st Maintenance Battalion, Fort Riley, KS; Forward Support Maintenance Company, 122d Maintenance Battalion, Germany; 724th Main Support Battalion, Fort Stewart, GA; Division Support Command, 3d Infantry Division, Germany; Commanding General, U.S. Army Ordnance Center and Schools, Aberdeen Proving Ground, MD; Commanding General, U.S. Army Combined Arms Support Command, Fort Lee, VA.

LTG Stevenson's other assignments include Executive Officer to the Commanding General, U.S. Army Tank-Automotive Command, MI; Support Operations Officer, 703d Support Battalion, Germany; Division Materiel Management Officer, 3d Infantry Division, Germany; Executive Officer to the Deputy Chief of Staff for Logistics, Washington D.C.; Director, Plans and Operations, Office of the Deputy Chief of Staff for Logistics, Washington D.C. and Deputy Chief of Staff for Logistics and Operations, U.S. Army Materiel Command, Fort Belvoir, VA.

He is a graduate of the Infantry Officer Basic Course, Ordnance Officer Advanced Course, U.S. Army Command and General Staff College, and the U.S. Army War College. General Stevenson holds a Master of Science degree in Logistics Management, Florida Institute of Technology and a Bachelor's degree in Psychology, West Virginia University. His awards and decorations include the Distinguished Service Medal with Oak Leaf Cluster, Legion of Merit with four Oak Leaf Clusters, Bronze Star Medal, Meritorious Service Medal with three Oak Leaf Clusters, Army Commendation Medal, Army Achievement Medal, Kuwait Liberation Medal and Southwest Asia Service Medal with three stars. He has also been awarded the Expert Infantryman's Badge.

Brigadier General Michael M. Brogan
Commander, Marine Corps Systems Command

Brigadier General Brogan is a native of Orrville, Ohio. In May 1980, he graduated from the University of Notre Dame with a Bachelor of Science degree in Chemical Engineering and was commissioned a Second Lieutenant. Following graduation from the Basic School, he completed Assault Amphibian Officers' Course as the Honor Graduate and was assigned as an Assault Amphibious Platoon Commander, Company D, 3d Assault Amphibian Battalion (3d AABn), 3d Marines, 1st Marine Brigade, Marine Corps Air Station, Kaneohe Bay, Hawaii. After returning from deployment to the Western Pacific in support of Battalion Landing Team 1/3, he was reassigned in August 1982 as the Maintenance Management Officer and Assistant Logistics Officer, 1st Battalion, 3d Marines and completed a second Western Pacific deployment.

In January 1984, Brigadier General Brogan reported to Marine Barracks, Naval Weapons Station, Yorktown, Virginia where he served consecutively as a Guard Platoon Commander, Operations Officer, Guard Officer, and Executive Officer. He transferred to Quantico, Virginia in July 1987 and attended the Advanced Communications Officer Course. Following graduation as an Honor Graduate in June 1988, General Brogan reported to 3d AABn, 1st Marine Division and became the Assistant Logistics Officer. In March 1989, he assumed command of Company A, 3d AABn. During Desert Shield and Desert Storm, the company supported 1st Battalion, 5th Marines and was a part of Task Force Ripper.

In June 1991, Brigadier General Brogan assumed duties as the Logistics Officer at the Amphibious Vehicle Test Branch (AVTB), Camp Pendleton, California. While at AVTB, he completed work on a Master of Arts Degree in Business and graduated with Distinction from Webster University. He also attended the 20-week Program Management Course at the Defense Systems Management College, Fort Belvoir, Virginia. General Brogan returned to Quantico, Virginia in July 1994 as a student. A Distinguished Graduate of the Marine Corps Command and Staff College, he reported to the Office of the Direct Reporting Program Manager, Advanced Amphibious Assault (DRPM AAA) in June 1995, to serve as the Survivability Project Officer. In June 1998, he became the Program Manager for the Advanced Amphibious Assault Vehicle Survivability Program.

Brigadier General Brogan reported to 1st Marine Division, Camp Pendleton, California in June 1999 and assumed command of 3d AABn. In July 2001, he transferred to the National Defense University, Fort McNair, Washington, DC as a student in the Industrial College of the Armed Forces (ICAF). General Brogan graduated from ICAF in June 2002 with a Master of Science Degree in National Resource Strategy. He reported to the Marine Corps Systems Command, Quantico, Virginia and was assigned as the Product Group Director, Infantry Weapons Systems. In February 2004, General Brogan reported to the Office of DRPM AAA for duty as the Expeditionary Fighting Vehicle Program Manager. In September 2006, Brigadier General Brogan became the Commander, Marine Corps Systems Command.

Brigadier General Brogan's personal decorations include: the Meritorious Service Medal with Gold Star, the Navy Commendation Medal with Gold Star, the Navy Achievement Medal and the Combat Action Ribbon.

LTC Michael Sloane
U.S. Army

LTC Mike Sloane currently serves as the Product Manager for Soldier Clothing and Individual Equipment in PEO Soldier. He attended schools both in the United States and in Germany while his father served 31 years in the United States Army Infantry. He studied and played soccer at Berry College and later graduated from Columbus State University with a Regular Army commission and a BBA in Business Management. He later earned his MBA as well.

LTC Sloane has had numerous operational assignments beginning with his duties as a Platoon Leader and a Company Executive Officer while serving four years in the 24th Infantry Division (Mechanized). In the 24th ID, he trained at the National Training Center (NTC), deployed for Operation Desert Shield/Storm, deployed to Honduras for Joint Task Force 105, and later deployed to support Hurricane Andrew relief operations. His career includes a four year break in active duty service from 1993 to 1997 during which time he had the unique opportunity to grow in the corporate industry as well as develop a limited liability corporation with his wife, Debbie. He is thankful for this incredible experience as it continues to pay dividends to the Army and the Acquisition Corps. He understands and respects Industry business challenges.

His military duties include three years in the 10th Mountain Division (Light Infantry) serving as the DISCOM S4 and as Commander, Bravo Company, 210th Forward Support Battalion. While in the 10th Mountain Division, he trained at the Joint Readiness Training Center (JRTC) and deployed to the Balkans for SFOR6.

He was assigned to Human Resource Center to serve as the Future Readiness Officer and as an Assignment Officer in Alexandria, VA, before attending the Command and General Staff College (CGSC) at Fort Leavenworth, KS. Next, he was assigned to the Missile Defense Agency's (MDA) Terminal High Altitude Area Defense (THAAD) System Project Office to serve as Assistant Product Manager (APM) for Missile development and later as APM for THAAD System Test and Evaluation to test and field this major weapon system to the Army. LTC Sloane's previous assignment was on the Army Staff, G-1 (Pentagon) where he served as the Personnel Policy Integrator for the Acquisition Corps, Judge Advocate General Corps, and the Chaplain Corps, writing policy for the Secretary of the Army, the Chief of Staff of the Army, and the Army G-1.

His awards and decorations include the Defense Meritorious Service Medal, Meritorious Service Medals, Army Commendation Medals, Joint Service Achievement Medal, Army Achievement Medals, Armed Forces Expeditionary Medal, SW Asia Service Medal (w/3 Bronze Service Stars), Global War on Terrorism/Service Medal, Humanitarian Service Medals, The NATO Badge, Saudi Arabia and Kuwait Liberation Medals, Parachutist Badge, Air Assault Badge and the Ranger Tab.

LTC Mike Sloane fully acknowledges the invaluable contributions and sacrifices his wife, Debbie, and son, Beau (13) have made during his career and is forever thankful for their love, support and strength.

Lieutenant Colonel Jon K. Rickey
Product Manager Soldier Protective Equipment
Program Executive Office Soldier

LTC Rickey enlisted with the Indiana National Guard for six years prior to commissioning into the Infantry in June 1988 through the Indiana National Guard. He assumed active duty through selection as the distinguished honor graduate in the Infantry Officer Basic Course in December 1989. His military education includes the Armor Officer Advanced Course, US Army Command and General Staff College and Defense Acquisition University Program Manager's Course. He holds a Master's of Arts Degree in Computer Resources and Information Management from Webster University and a Bachelors of Arts in General Studies from Indiana University.

LTC Rickey has served in various acquisitions assignments to include Infantry Systems Test Officer, Acquisition Assignment Officer, Assistant Product Manager for Military Operations on Urban Terrain and Combat Training Centers, Training With Industry at Harris Corporation, Department of the Army Systems Coordinator, Special Assistant to the Director of the Army Staff, and Deputy Director, Operations, ASA(ALT).

His command and troop assignments include: Rifle Platoon Leader, Mortar Platoon Leader, Assistant Operations Officer, and Headquarters and Headquarters Company Executive Officer for 3rd Battalion, 6th Infantry "Gators" at Fort Polk, LA, and as Adjutant for the 2nd "St Lo" Brigade, 2nd Armored Division at Fort Hood, TX. He served as Adjutant for 1st Battalion, 36th Infantry "Spartans" stationed in Friedberg, Germany, before assuming command in Bosnia of Bravo Company. He took Bravo Company for a second Bosnia tour attached to 2nd Squadron, 2nd ACR "Wolfpack."

LTC Rickey's awards and badges include: the Meritorious Service Medal (with four Oak Leaf Clusters); the Army Commendation Medal (with two Oak Leaf Clusters); the Army Achievement Medal (with five Oak Leaf Cluster); The Army Superior Unit Award; the Army Reserve Component Achievement Medal; the Armed Forces Expeditionary Medal; the Southwest Asia Service Medal; the Global War on Terrorism Service Medal; the NATO Medal; the Liberation of Kuwait Medal; the Ranger Tab; the Parachutist Badge; and the Expert Infantryman Badge.

Product Managers

Soldier Clothing and Individual Equipment

and

Soldier Protective Equipment

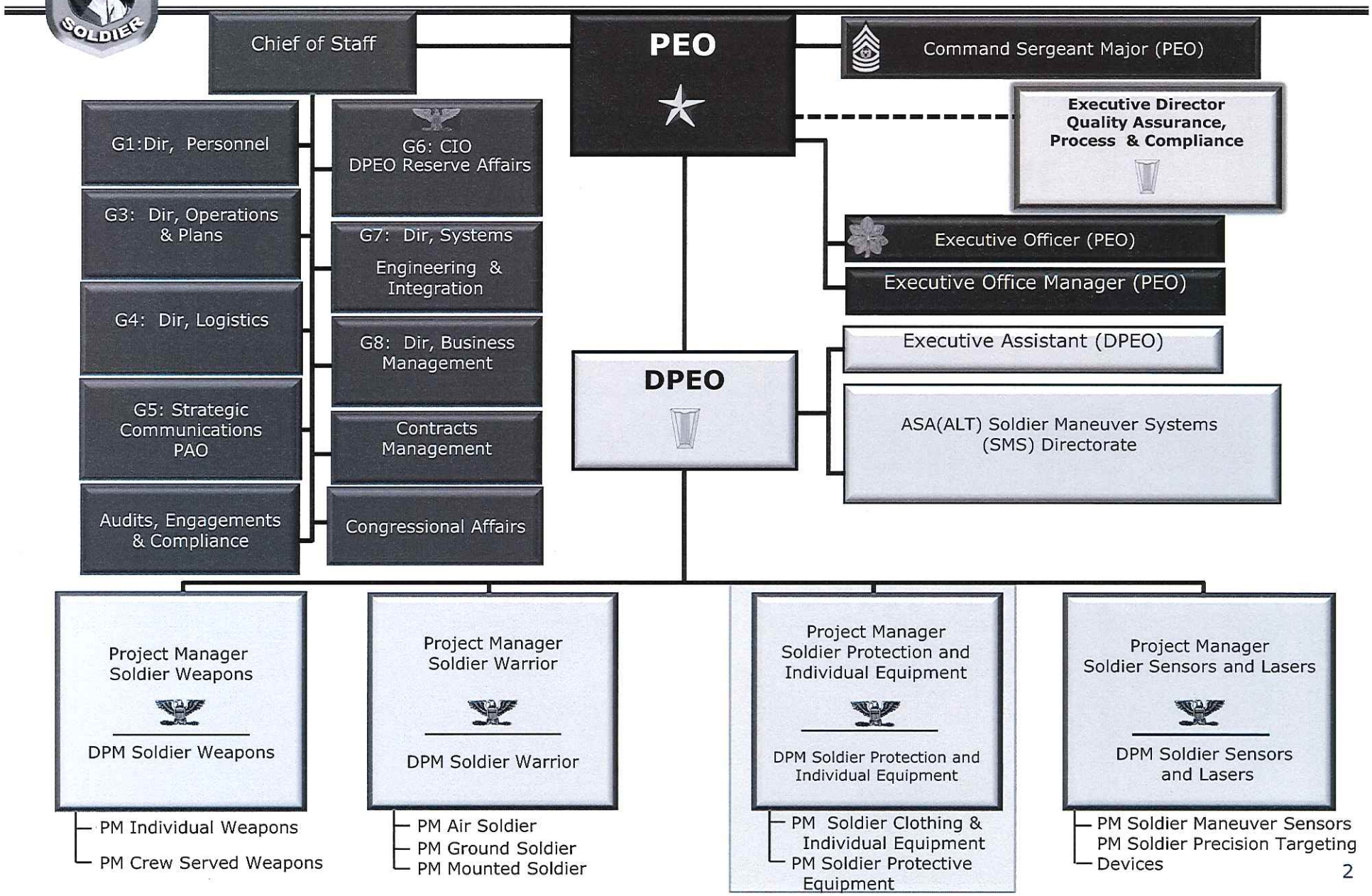
May 2010

Lieutenant Colonel Jon K. Rickey
Product Manager
Soldier Protective Equipment

Lieutenant Colonel Michael E. Sloane
Product Manager
Soldier Clothing and Individual Equipment

Program Executive Office Soldier

As of 1 January 2010



Project Manager Soldier Protection and Individual Equipment

Project Manager SPIE
COL William Cole
MSG Cedrick Harris
Deputy
Fred Coppola
Fort Belvoir, VA

Director, Business Management Division
Wes Welch

Director, Logistics
Preston Turner

Director, Operations & Plans
Gary Pesano

Director, Technical Management
Karl Masters

Director, Quality Assurance
Duane Cook

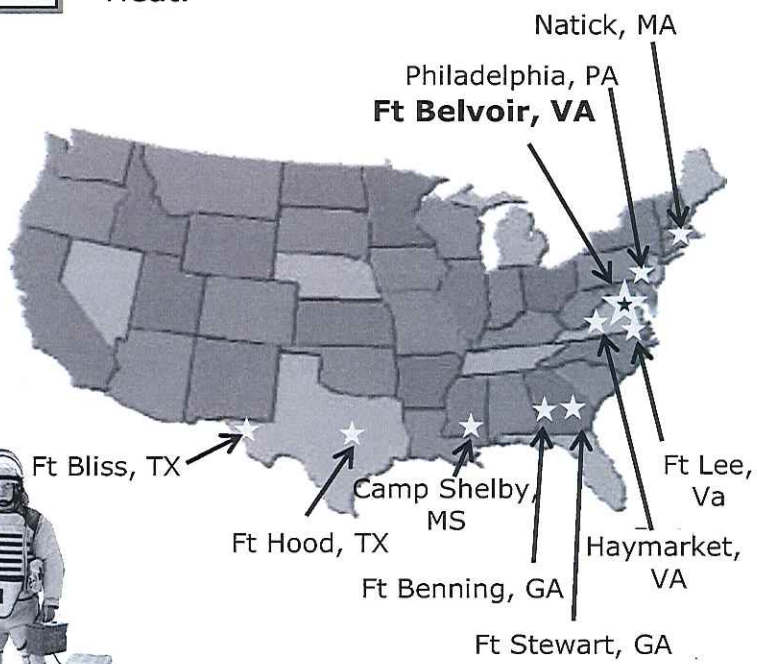
Product Manager Soldier Clothing and Individual Equipment
LTC Michael Sloane
Deputy Todd Wendt

MAJ Morneault APM
MAJ Bryan APM
CPT Kirkwood APM
Jeff Myhre APM
Kate O'Malley APM
Marty Fadden APM

Product Manager Soldier Protective Equipment
LTC Jon Rickey
Deputy Barry Hauck

MAJ Kuykendall APM
MAJ Fournier APM
Sarah Morgan-Clyborne APM
MAJ Metz APM

Mission:
Develop and provide superior and sustainable integrated clothing and equipment in a rapidly changing global environment as well as provide Soldiers with the state-of-the-art protection to defeat and reduce threats associated with Ballistics, Blast Overpressure, Fragmentation and Heat.



PM SCIE Mission & Vision

Mission

Develop and provide superior and sustainable integrated clothing and equipment in a rapidly changing global environment for the Army's most important combat system...the Soldier!

Vision

EVERY Soldier, EVERYWHERE, EVERY Day

Soldier Clothing & Individual Equipment

Product Manager
LTC Sloane

Senior Enlisted Advisor
SFC Corp

Deputy Product Manager
Todd Wendt

APM Personnel Airdrop
MAJ Jason Morneault

APM RFI/Gloves
Kate O'Malley

APM FR Clothing
Jeff Myhre

APM ASU/Clothing Bag/ACU
Marty Fadden (Acting)

APM Extreme Weather
MAJ John Bryan

APM NBC/MACK/Hydration
CPT Terry Kirkwood

System Integrator
Dave Geringer (Acting)

Operations
(Vacant)

Quality/Assurance
Ron Pollack

Resource Mgmt
Joyce Moseley

Contracts
(Vacant)

LSO Liaison
(Vacant)

Air Drop Team NSRDEC
Natick, MA

Engineer Support
Edgewood,MD

Warrior Equipment and Systems (WES) - NSRDEC
Natick, MA

Logistics Support Office
Philadelphia, PA

Chemical Support
Gary Weathers
Fort Leonard Wood, MO

Air Drop Support
Fort Benning, GA

MCOE
Sara Faye Anderson
Fort Benning, GA

ENGINEERING SUPPORT:
RDECOM

LOGISTICS SUPPORT:
TACOM LCMC

COMBAT DEVELOPMENT
USAIC (MCOE)
USAARMC
USAAVNC
USACMLS
CASCOM
USAMPS

Military
DAC
Contractor
Matrix Support

PM SCIE FY 10
Active Projects

MAJ John Bryan
Acquisition Supports:
Steve Swan/SFC Corp
(703) 805-8529
john.bryan1@us.army.mil

GEN III/GEN IV ECWCS
FREE
Team Stove
Modular Boot System
Mountain Combat Boot
Mountaineering Equipment
Injury Reduction Study
Field Tarp
Sweater PIP

Marty Fadden (Acting)
Acquisition Support: Roland Bostick
(703) 805-8530
martin.fadden@us.army.mil

Clothing Bag Modernization
Defense Civilian Uniform (DCiU)
ACU Ancillary Items
Army Combat Uniform
Army Service Uniform

Kate O'Malley
Acquisition Support: Debbie Williams
(703) 805-8532
kathryn.omalley@us.army.mil

Army Combat Glove (APL)
Glove Enhancement Initiative
RFI
Modular Sleeping Bag System
(MSBS) Upgrade
IPFU Enhancements
Duffel Bag Improvements
Performance T-Shirt
Towel Improvements

Dave Geringer (Acting)
Integration Support: Jaime Roig
(703) 805-8506
david.geringer@us.army.mil

Systems Integration

Neal Nguyen
(703) 704-1046
neal.l.nguyen@us.army.mil

Shin, Knee, Elbow Protection System
FR Patches
Permethrin Treatment
Family of Flashlights (APL)

Dan Purcell
(508) 233-6335
daniel.j.purcell@natick.army.mil

Overall Acquisition Support
to all SCIE Assistant
Product Managers

CPT Terry Kirkwood
Acquisition Support: Dan Young
(703) 805-8518
terry.kirkwood@us.army.mil

On-the-Move Hydration System
JC3
JPACE
JSLIST
JSLIST Glove/AFS
Modern Army Combatives Kit
MOLLE

MAJ Jason Morneault
Acquisition Support: Keith Colliver
(703) 805-8528
jason.morneault@us.army.mil

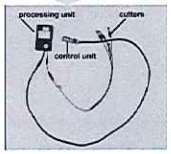
Advanced Tactical Parachute System
MC-6
MFF ARAPS
Electronic Automatic Activation Device
MFF Navigational Aid
Parachutist Oxygen Mask
RFID

Jeff Myhre
Acquisition Support: Jed
Watkins/Phil Blue
(703) 805-8517

FR Clothing
Army Combat Shirt
Army Combat Pant
Fuel Handlers Coverall
Modular Ghillie Suit/GSAK Upgrade
FR Camouflage Face Paint

SCIE Areas of Responsibility

- ✓ Individual Equipment
- ✓ Hand and Foot Wear
- ✓ Personal Clothing
- ✓ Environmental Clothing
- ✓ Personnel Airdrop
- ✓ Chemical/Biological Protection



Electronic Automatic Activation Device

Parachutists Oxygen Mask

Advanced Tactical Parachute System (ATPS)

Service Uniforms

Modern Army Combatives Kit

Army Combat Uniform

Fuel Handler's Coverall

Army Combat Boots

Team Stove

Family of Flashlights

On-the-Move Hydration System

Modular Sleep System

Fire Resistant Clothing

Army Combat Glove

Field Tarp

Glove Enhancement Initiative

Modular Boot System

Mountaineering Equipment

MOLLE

Army Combat Shirt

MFF Navigational Aid

IPFU Enhancements

Modular Ghille Suit/GSAK Upgrade

Outer Shell Layers

Mountaineering Boot

Joint Service Lightweight Integrated Suit Technology (JSLIST)

Army Combat Uniform & ACU Ancillary Items

Base Layers

Insulating Layer

GEN III Extended Cold Weather Clothing System

Fire Resistant Environmental Ensemble

SCIE Areas of Responsibility

- ✓ Individual Equipment
- ✓ Hand and Foot Wear
- ✓ Personal Clothing
- ✓ Environmental Clothing
- ✓ Personnel Airdrop
- ✓ Chemical/Biological Protection

Purpose/Mission

Mission: Increase the Warfighter lethality and mobility, by optimizing Soldier protection while effectively managing all life cycle aspects of personal protective equipment

Army Strong – Soldier Protected

PM SPE Current Structure

Updated as of (05 APR 10)

Key
Military
DA Civilian
Contractor

Matrix Support

Natick
Jay Connors
Mike Codega
Rob DiLalla
Mike Zielinski
Michelle Markey
Dave Phelps
Ken Ryan
Nick Kakalecz
Don Desrocher

Philadelphia
Tess Snavely
Mark Pecorini
Diane Gomez
Myron Pross
John Rhodes
Mike Huelsenbeck
Lynn Lewis
Rick Eisele
Marcia Smith

Onboard	MIL	DAC	KR	TTL
Current	4	13	22	39
Matrix	0	17	1	18
NDTE	0	0	25	25
Total	4	30	48	82

PM SPE
LTC Jon Rickey
DPM SPE
Barry Hauck

Executive Administrator
Loniece Reed

BMD
Theresa Perkins
Contracts

Test (APG)
Richard Rodriguez
John Morris
Vacant (DAC)/Test

Sr Quality
Sarah
Morgan-Clyborne

Operations
Francis Hayden
Carol Baker
Vicki Sumner

NCO
Vacant

Chief TMD
Mike Van Buskirk

AMRDEC

APM
0-4 (DAC)
Hard Armor
MAJ Roger Kuykendall

- AC Spt: Robert Weinhold, David Holland
- Log: Trish Gogats
- Engr: David Simmons, Nick Haynes
- QA: Jacob Mullenix, Denroy Smith
- Test Eng (APG): Steve McClung

APM
0-4
Soft Armor/IOTV
Blast Prot. (ABS/ICPE)
MAJ Craig Fournier

- AC Spt: Mac Wilson
- Log: Herb Champion
- Eng: John Glisson
- QA: Denise Walsh
- Test Eng (APG): Roy Falcone

APM
DAC
Eyewear/NDTE
Vacant

- AC Spt: Deb Stephens, John Farris
- Log: Frank Cole (Redstone)
- Eng/Software: Michael Mentley
- QA: Richard Ostermann/ (Eyewear) Keith Robinson (NDTE)
- Data Analyst: Melissa Weller

APM
0-4
Head Protection
MAJ Chris Metz

- AC Spt: Loie Randall
- Log: Phil Manuel
- Eng: Shannon Elliott, Vacant (DAC)
- QA: Brian Gesford
- Test Eng (APG): Ian Rozansky

NDTE Support Teams

Kuwait Ali
Bruce Cardel
Willie Finney
Richard Potvin
Gloria Johnny
Raymond Aguirre
Ezzard Powe
Donald Heard
David Craig

Kuwait Buehring
Brian Thompson
Charles Kinney
Thomas Jackson
Vince Fortney
Leon Green
Herbert Nap
Benjamin Vallejo
Wendell James

Sierra
Ernest Adam
Daniel Kecker
Andre Peoples
Matthew Harding
Reginal Bean
Jerry Carmikle
Montego Gaston
Vacant

Team 4
Tony Smiraglia
John Brey
2 Vacancy

Army Strong – Soldier Protected

PM SPE Active Projects

MAJ Roger Kuykendall, APM
Nicholas Haynes, Engineer & Acting APM
703-704-4714
nick.haynes@us.army.mil

SAPI – ESAPI – XSAPI - ESBI

Concealable Body Armor (CBA)

Plate Carrier

MAJ Christopher Metz
703-704-2266
christopher.metz@us.army.mil

Advanced Combat Helmet (ACH)

Enhanced Combat Helmet (ECH)

NAPE – Neck Protection

Helmet Sensor (HS)

Combat Vehicle Crewman (CVC)

MAJ Craig Fournier, APM
Robert DiLalla, Acting APM
703-704-0567
robert.v.dilalla@us.army.mil

Outer Tactical Vest (OTV)

Improved Outer Tactical Vest (IOTV)

Improved Cupola Protective Ensemble (ICPE)

Advanced Bomb Suit (ABS)

EOD9 Helmet

Ballistic/Non Ballistic Protection

Deborah Stephens, Acq Spt & Acting APM
703-704-4761
debbie.stephens@us.army.mil

Military Combat Eye Protection (MCEP)

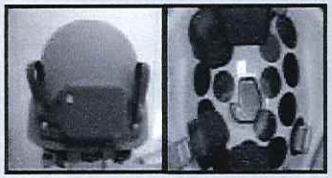
Non Destructive Test Equipment (NDTE)

Areas of Responsibility

MAJ Christopher Metz

Advanced Combat Helmet (ACH)

NAPE/Neck Protector

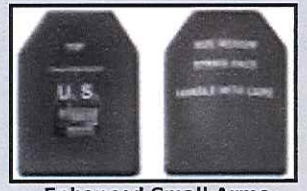


Helmet Sensors (HS)

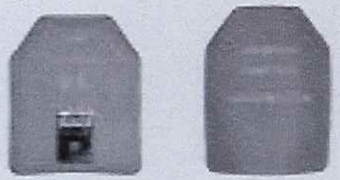
Combat Vehicle Crewman Helmet

Enhanced Combat Helmet (ECH)

Nick Haynes, Acting



Enhanced Small Arms Protective Insert (E-SAPI)



XSAPI

Plate Carrier

Concealable Body Armor (CBA)

Robert DiLalla, Acting

Improved Outer Tactical Vest (IOTV)

Advanced Bomb Suit/EOD 9 Helmet (ABS)

Improved Cupola Protective Ensemble (ICPE)

Ballistic-Non Ballistic Protection

Air Warrior Body Armor

Deborah Stephens, Acting

Non Destructive Test Equipment (NDTE)

Military Combat Eye Protection (MCEP)

LIEUTENANT COLONEL A.J. PASAGIAN, UNITED STATES MARINE CORPS

A.J. Pasagian was awarded a Bachelor of Arts Degree in History in May 1990 at the City University of New York. He attended Recruit Training at Parris Island South Carolina in 1987, and was Commissioned a Second Lieutenant in June 1990.

Lieutenant Colonel Pasagian, filled a variety of billets ranging from platoon commander, company executive officer, supply and logistics officer and later deployed with the 11th Marine Expeditionary Unit (MEU), participating in OPERATION CONTINUE HOPE in Somalia. He porting completed his first series of acquisition accreditations at the Naval Postgraduate School in Monterey, CA where he earned a Masters of Science degree in Information Technology Management. He served as Architecture Assessments Officer within the Systems Engineering and Integration (SE&I) Division at Marine Systems Command and oversaw interdependencies and integration among the MAGTF C4ISR systems architecture. He later reported served as Executive Officer for a Brigade Service Support Group during the deployment to OPERATION'S ENDURING AND IRAQI FREEDOM (OIF). He served as Requirements Officer for Future ships having a Marine Expeditionary interest.

LtCol Pasagian currently serves as the Program Manager for Infantry Combat Equipment at Marine Corps Systems Command in Quantico Virginia. In this role, LtCol Pasagian is responsible for the research, development and procurement of clothing, individual body armor, load carriage systems, mountain and cold weather equipment and an assortment of individual items to improve survivability, mobility and the sustainability of the individual Marine in combat.

His awards include the Bronze Star Medal, Meritorious Service Medal (two Gold Stars in lieu of 3rd award) and Navy, Marine Corps Commendation Medal (with Gold Star in Lieu of Second award), and the Navy and Marine Corps Achievement Medal.

MARINE CORPS SYSTEMS COMMAND

Combat Equipment & Support Systems (CESS)
Program Manager, Infantry Combat Equipment

Advance Planning Brief to Industry
May 2010

LtCol A. J. Pasagian
Infantry Combat Equipment, Marine Corps Systems Command
E-mail: arthur.pasagian@usmc.mil
Office Phone: 703-432-3320
PMICE@usmc.mil

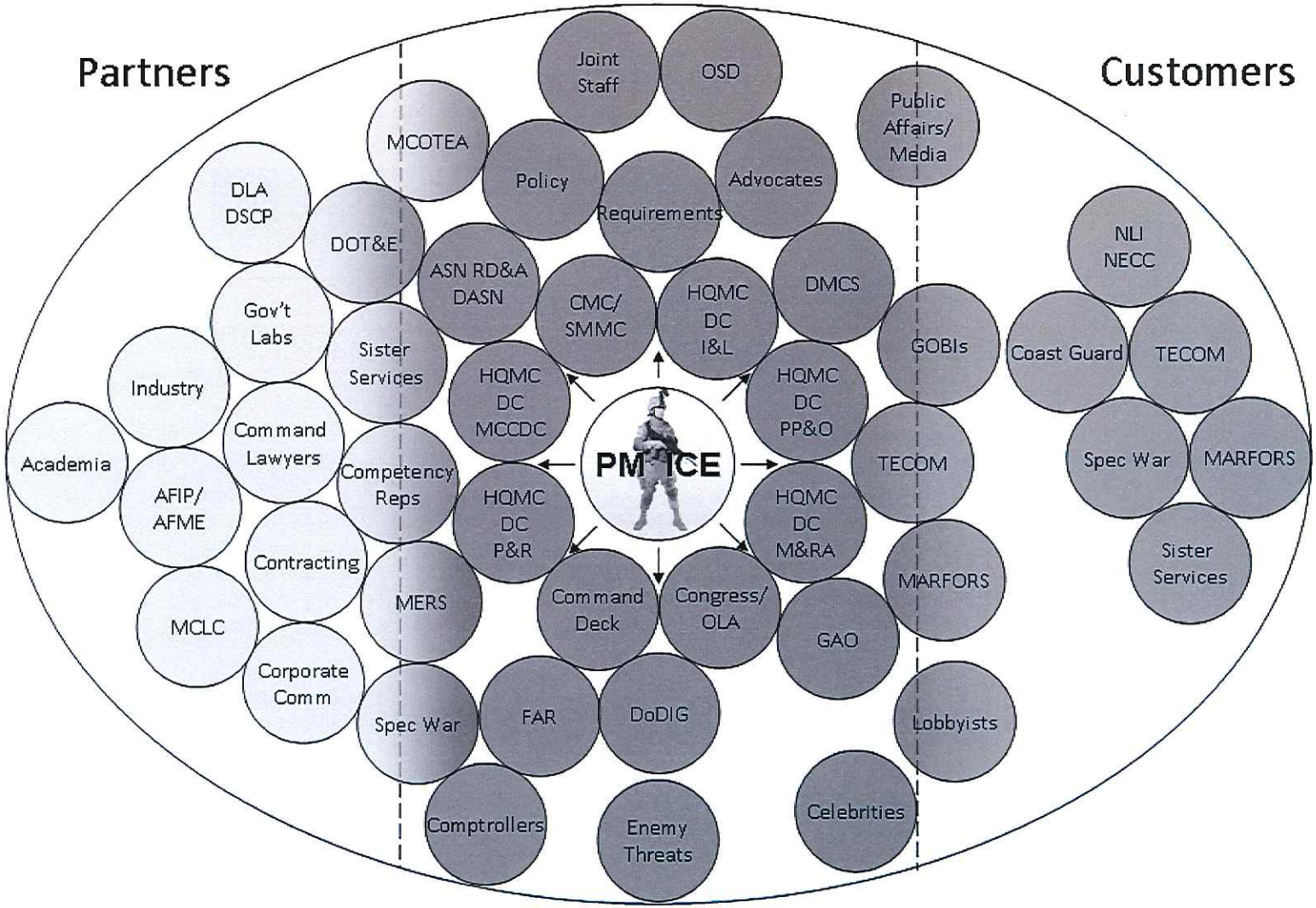
Our Mission

Program Manager Infantry Combat Equipment (PM ICE) is the total life cycle manager for all Marine Infantry Combat Equipment and is responsible for developing, fielding, and sustainment of ICE to enhance the performance, capability, survivability, and mobility of Marines.

MARINE CORPS SYSTEMS COMMAND

Combat Equipment & Support Systems (CESS)
Program Manager, Infantry Combat Equipment

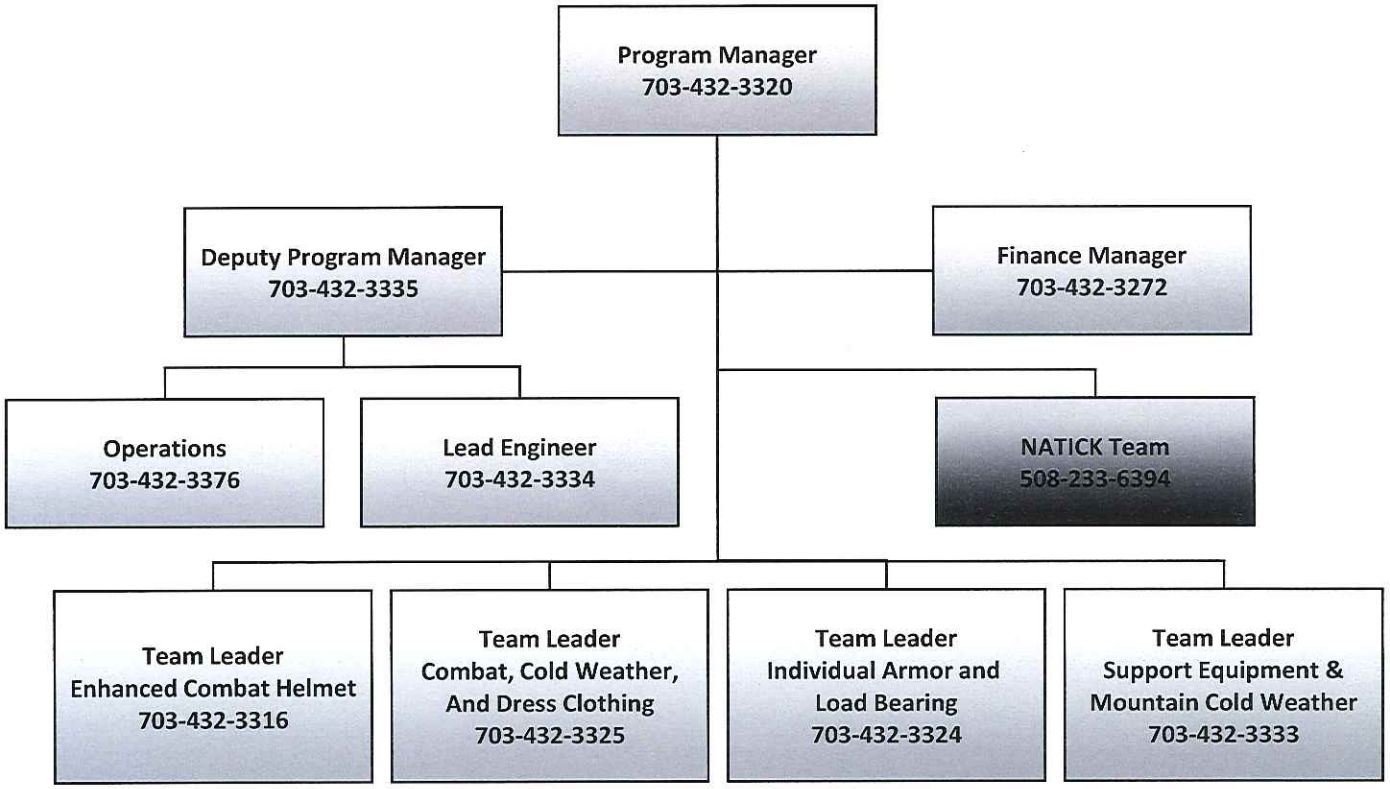
Stakeholders/Influencers



FOR OFFICIAL USE ONLY

PM ICE Organization

PROGRAM MANAGER
Infantry Combat Equipment
2200 Lester Street
Quantico, VA 22134-6050
http://www.marcorsyscom.usmc.mil/sites/pmice/



MARINE CORPS SYSTEMS COMMAND

Combat Equipment & Support Systems (CESS)
Program Manager, Infantry Combat Equipment

Evolution of Clothing and Personal Protective Equipment

2000	2009
Equipment Spending Per Marine	
$1,200	$5,500-$6,000

Side-SAPI	$714.00
Modular Tactical Vest	$1,071.00
Neck Gaiter	$3.83
Cap Fleece	$5.20
Drawers Cold Weather x2	$23.20
Gloves Men and Women	$18.85
Gloves, Insert Cold x2	$39.42
Pullover, Fleece Coyote	$32.50
Undershirt, CW x2	$22.60
Spectacle Kit	$23.72
Goggles	$60.02
E-SAPI x2	$1,300.00
Belt, Individual	$10.92
Canteen, Water Plastic x2	$8.62
Entrenching Tool	$52.06
Cover, Helmet Reversible	$10.03
Cover, Canteen x2	$10.46
Cup, Canteen	$9.19
IFAK	$57.50
Light Weight Helmet	$215.73
Poncho Liner	$34.32
Mat, Sleeping	$7.48
Field Tarp	$54.57
Modular Sleep System	$258.54
Stand, Canteen Cup	$3.54
Suspenders, Individual Equip	$11.02
Imp Load Bearing Equip	$580.06
Parka, APECS	$164.04
Trousers APECS	$91.58
Bag, Clothing	$13.87
Pouches, Rifleman	$106.00
Combat Desert Jacket	$134.00
MACS Sacks x4	$ 57.60
Ballistic Hearing Prot	$10.50
Water Purification	$40.10
Ext Knee and Elbow Pads	$28.55
Enhanced Bed Net System	$239.00
Total	$5,523.06

PM ICE Active Projects

Combat, Cold Weather and Dress Clothing Team

- **Flame Resistant Organizational Gear - clothing and textiles that prevent burn injuries**
- **Combat Desert Jacket (CDJ)**
- **Cold Weather Clothing**
  - Glove System
  - Winter Camouflage Over-Garment
  - Mountain Cold Weather Boot
  - Cold Weather Layering System
- **Certification of all clothing & optional items**
- **PT uniform**
- **Sea Bag Items**
  - Running Suit (new)
- **Rugged All Terrain (RAT) boot**
- **Inclement Weather Combat Shirt**

Individual Armor and Load Bearing Team

- **Family of Ballistic Protection**
  - **Vests:**
    - Outer Tactical Vest (OTV)
    - Modular Tactical Vest (MTV)
    - Improved –MTV (IMTV)
    - Scalable Plate Carrier (SPC)
    - Plate Carrier (PC)
    - Next Generation Vest (NGV)
    - Body Armor System – Combat Vehicle Crewman (BASC)
  - **Ballistic Plates**
    - E-SAPI
    - S-SAPI
    - Non-Destructive Evaluation (NDE)
  - **Helmets:**
    - Lightweight Helmet (LWH)
    - Enhanced Combat Vehicle Crewman Helmet (ECVCH)
    - Next Generation Helmet (NGH)
    - Headborne System Integration (HSI)
    - Helmet Pads
    - Suspension System

Individual Armor and Load Bearing Team

- **Eyewear**
  - Goggles
  - Spectacles
- **Full Spectrum Battle Equipment (FSBE)**
- **Family of Load Bearing Equipment**
  - **Individual Load Bearing Equipment (ILBE)**
    - Pouches
    - Hydration System Carrier
    - Water Purification
  - **Reconnaissance Load Bearing Equipment (RILBE)**
- **Ballistic Hearing Protection**
- **Other**
  - Helmet Sensor
  - Cooling Vest
  - NAPE
  - Quadguard

MARINE CORPS SYSTEMS COMMAND
Combat Equipment & Support Systems (CESS)
Program Manager, Infantry Combat Equipment

PM ICE Website

http://www.marcorsyscom.usmc.mil/sites/pmice/

MARINE CORPS SYSTEMS COMMAND
Combat Equipment & Support Systems (CESS)
Program Manager, Infantry Combat Equipment

PROGRAM MANAGER INFANTRY COMBAT EQUIPMENT FIELDS, SUSTAINS, AND ASSESSES CLOTHING AND EQUIPMENT WHILE ANTICIPATING THE NEEDS OF AND MAINTAINING CONTACT WITH THE OPERATING FORCES IN ORDER TO ENHANCE THE PERFORMANCE, CAPABILITY, SURVIVABILITY, MOBILITY, AND SUSTAINABILITY OF MARINES.

HOME | ARMOR & LOAD BEARING EQUIPMENT | COMBAT & DRESS CLOTHING | SUPPORT EQUIPMENT | OPERATIONS | EQUIPMENT COMING SOON | INDUSTRY INFORMATION | LINKS | NEW EQUIPMENT TRAINING TEAM | POINTS OF CONTACT

ITEMS OF INTEREST:
MTV TRAINING GUIDES: PERIOD OF INSTRUCTION | INSTRUCTION CARD | COMMERCIAL MANUAL | REQUEST TRAINING | COMPONENT LIST | REFERENCE INFORMATION | MARINE ENHANCEMENT PROGRAM | STAP CATALOG [ITEMS IN RED FONT ARE OBSOLETE] **| BATTLEBOOK | TRIFOLD**

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PM ICE Active Projects

Support Equipment & Mountain Cold Weather Team

-Combat Field Feeding Systems
- Tray Ration Heating System (TRHS)
- Enhanced Tray Ration Heating System (ETRHS)
- Field Food Service System (FFSS)
- FFSS Bus Duct
- Food & Beverage Containers
- Expeditionary Field Kitchen (EFK)
- Reefer System

-Mountain Cold Weather Equipment
- Skis, Snowshoes
- Marine Assault Climbers Kit (MACK)
- 3-Season Sleep System
- Extreme Cold Weather Bag
- Sleep Mat
- Squad Sled
- Team Stove

-General Property Support Equipment
- Enhanced Bed Net System
- MARPAT Poncho Liner
- Family of Flashlight Individual Flashlight/UHIMIS
- Field Tarps/Breachers Kits/ Knee & Elbow Pads
- Martial Arts Kits
- Waterproof Bag

-Reefer System
-NBC Caps
-Strap Cutters
-Wire Cutters
-Transponder
-Rescue Sling

Enhanced Combat Helmet Team

-Enhanced Combat Helmet

BIOGRAPHY

UNITED STATES AIR FORCE

LT COL DARIEN HAMMETT

Lieutenant Colonel Darien J. Hammett is the Commander of the 648th Aeronautical Systems Squadron, 77th Aeronautical Systems Group, 77th Aeronautical Systems Wing at Wright-Patterson AFB, Ohio. He leads a 100+-person squadron responsible for development, modernization, production, fielding, sustainment, and testing of aircrew performance equipment, personal flight equipment, Air Force uniforms, protective clothing, ejection seats, restraint systems, escape and descent systems, survival and support systems, and aircraft mishap analysis.

Lt Col Hammett graduated in 1995 from the University of Florida with a degree in Electrical Engineering and has had assignments with the Air Force involved in space acquisition and operations, as well as aircraft sensor development. He assumed his current position as Squadron Commander in July, 2009.

EDUCATION:

2007 Master of Science in Military Operational Art, Air Command and Staff College (ACSC), Maxwell AFB, AL
2002 Master of Science in Electrical Engineering, Rochester Institute of Technology, Rochester, NY
2000 Squadron Officer School, Maxwell AFB, AL
1995 Bachelor of Science in Electrical Engineering, University of Florida, Gainesville, FL

ASSIGNMENTS:

1. July 2009-Present Commander, 648th AESS Aircrew Performance Squadron, Aeronautical Systems Center, Wright-Patterson AFB, AL
2. June 2008-July 2009 Chief, Program Execution Group, Aeronautical Systems Center, Wright-Patterson AFB, OH
3. July 2007-June 2008 Special Programs Flight Commander, Aeronautical Systems Center, Wright-Patterson AFB, OH
4. August 2006-July 2007 Air Command and Staff College Student, Maxwell AFB, AL

2. January 2005-December 2009, Principal Acquisition Program Analyst *(Alion Science & Technology contractor)*, ASC Program Execution Group, ASC, WPAFB, OH
3. February 2004-November 2004, Chief, F-16 Multinational Fighter Program Branch, ASC, WPAFB, OH
4. June 2001-February 2004, Chief, F-16 Combat Capability Upgrade Branch, ASC, WPAFB, OH
5. November 2000-June 2001, Chief, C-17 Air Vehicle Division, ASC, WPAFB, OH
6. June 1999-November 2000,C-17 Block 12/13 Program Manager and Air Vehicle Integration Team Lead, ASC, WPAFB, OH
7. August 1998-June 1999, ACSC student, Maxwell AFB, AL
8. August 1996-July 1998, Chief, Space Based Infrared Systems Plans and Programs Branch, SMC, Los Angeles AFB, CA
9. June 1995-July 1996, F-16 USAF Block 50 Production Program Manager, ASC, WPAFB, OH
10. September 1994-June 1995, Deputy Chief, LANTIRN Multinational Programs Division, ASC, WPAFB, OH
11. June 1992-September 1994, Low Altitude Navigation and Targeting Infrared for Night (LANTIRN) Foreign Military Sales Program Manager, ASC, WPAFB, OH
12. July 1989-June 1992, Assistant Professor of Aerospace Studies, AFROTC, Greeley/Fort Collins, CO
13. March 1988-June 1989, Chief, WIS Products Division, ESC, Hanscom AFB, MA
14. October 1984-March 1988, Worldwide Military Command & Control System (WWMCCS) Information System (WIS) Site Installation/Integration Officer, Electronic Systems Center (ESC), Hanscom AFB, MA

PROFESSIONAL CERTIFICATIONS

Program Management – Level III

MAJOR AWARDS AND DECORATIONS:

Meritorious Service Medal, 4 Oak Leaf Clusters
Air Force Commendation Medal, 1 Oak Leaf Cluster
Air Force Achievement Medal

(Current as of April 2010)

BIOGRAPHY

UNITED STATES AIR FORCE

MRS. SUSAN M. SLAUGHTER

Susan Slaughter is the Deputy Squadron Director of the 648th Aeronautical Systems Squadron, 77th Aeronautical Systems Group, 77th Aeronautical Systems Wing, Aeronautical Systems Center (ASC), Air Force Materiel Command, Wright-Patterson AFB, Ohio. The 100+-person squadron is responsible for development, modernization, production, fielding, sustainment, and testing of aircrew performance equipment, personal flight equipment, Air Force uniforms, protective clothing, ejection seats, restraint systems, escape and descent systems, survival and support systems, and aircraft mishap analysis.

Mrs. Slaughter began her career with the Air Force as a second lieutenant in 1984 at Hanscom AFB. During her active duty career, she held various positions in acquisition program offices at Electronic Systems Center, Aeronautical Systems Center, and Space and Missile Systems Center, as well as an assignment teaching Air Force Reserve Officer Training Corps (ROTC) cadets at two Colorado universities. She is a retired lieutenant colonel with over 20 years of active duty service.

After retiring from active duty, Mrs. Slaughter was hired as a contractor in 2005. For five years, she worked on the SAF/AQ contract, providing acquisition support to the Air Force Program Executive Officer for Aircraft and his staff. Specifically, Mrs. Slaughter served as the action officer for mobility programs, as well as serving as a directorate support manager for her company. Mrs. Slaughter returned to government civilian service in her current position in January 2010.

EDUCATION:

2000 Defense Systems Management College, Advanced Program Management Course, Ft. Belvoir, VA
1999 Air Command and Staff College (ACSC) (residence), Maxwell AFB, AL
1999 Master of Science degree in Military Operational Art and Science, Air University, Maxwell AFB, AL
1991 Squadron Officer School (residence), Maxwell AFB, AL
1987 Master of Science degree in Engineering Management, Western New England College, Springfield, MA
1984 Bachelor of Science degree (with distinction) in Operations Research and Industrial Engineering, Cornell University, Ithaca, NY

ASSIGNMENTS:

1. January 2010-present, Deputy Director, 648th Aeronautical Systems Squadron, 77th Aeronautical Systems Group, 77th Aeronautical Systems Group, ASC, WPAFB, OH

2. January 2005-December 2009, Principal Acquisition Program Analyst *(Alion Science & Technology contractor)*, ASC Program Execution Group, ASC, WPAFB, OH
3. February 2004-November 2004, Chief, F-16 Multinational Fighter Program Branch, ASC, WPAFB, OH
4. June 2001-February 2004, Chief, F-16 Combat Capability Upgrade Branch, ASC, WPAFB, OH
5. November 2000-June 2001, Chief, C-17 Air Vehicle Division, ASC, WPAFB, OH
6. June 1999-November 2000,C-17 Block 12/13 Program Manager and Air Vehicle Integration Team Lead, ASC, WPAFB, OH
7. August 1998-June 1999, ACSC student, Maxwell AFB, AL
8. August 1996-July 1998, Chief, Space Based Infrared Systems Plans and Programs Branch, SMC, Los Angeles AFB, CA
9. June 1995-July 1996, F-16 USAF Block 50 Production Program Manager, ASC, WPAFB, OH
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11. June 1992-September 1994, Low Altitude Navigation and Targeting Infrared for Night (LANTIRN) Foreign Military Sales Program Manager, ASC, WPAFB, OH
12. July 1989-June 1992, Assistant Professor of Aerospace Studies, AFROTC, Greeley/Fort Collins, CO
13. March 1988-June 1989, Chief, WIS Products Division, ESC, Hanscom AFB, MA
14. October 1984-March 1988, Worldwide Military Command & Control System (WWMCCS) Information System (WIS) Site Installation/Integration Officer, Electronic Systems Center (ESC), Hanscom AFB, MA

PROFESSIONAL CERTIFICATIONS

Program Management – Level III

MAJOR AWARDS AND DECORATIONS:

Meritorious Service Medal, 4 Oak Leaf Clusters
Air Force Commendation Medal, 1 Oak Leaf Cluster
Air Force Achievement Medal

(Current as of April 2010)

Aeronautical Systems Center

U.S. AIR FORCE

Dominant Air Power: Design For Tomorrow…Deliver Today

648 AESS Overview
2010 APBI

U.S. AIR FORCE

Lt Col Darien Hammett
648 AESS/CC
DSN: 785-8633
darien.hammett@wpafb.af.mil

Integrity - Service - Excellence

U.S. AIR FORCE

Acquisition Organization

JPEO-CBD
Falls Church VA
MG Scarbrough (USA)

Chem/Bio Defense Programs

ASC/CC (PEO)
WPAFB OH
Lt Gen Owen

AFPEO/C2&CS
Hanscom AFB MA
Lt Gen Bowlds

TRAC2ES Medical MIS System

77 AESW/CC
WPAFB OH
Col Murphy

77 AESG/CC
WPAFB OH
Col Gray

648 AESS

649 AESS

AEROMEDICAL DIVISION (TF)

Integrity - Service - Excellence

U.S. AIR FORCE

77 AESG Squadron/CCs

648 AESS/CC
WPAFB OH
Lt Col Darien Hammett

649 AESS/CC
Brooks City-Base TX
Lt Col Ronald Jobo

77 AESG/TF
Brooks City-Base TX
Lt Col Jeffrey Clement

Integrity - Service - Excellence

U.S. AIR FORCE

77th Aeronautical Systems Group (AESG) Mission

- 77 AESG maximizes combat power and survivability of Airmen through cross-enterprise materiel solutions that address required AF capabilities
  - Acquire and sustain aircrew performance; chemical, biological, radiological, nuclear defense; aeromedical equipment; and medical information systems
  - Manage AF uniform efforts, conduct life support mishap investigations, and support Joint POW/MIA identification efforts
  - Acquire, modernize, field, sustain, and test Aircrew Performance equipment; personal flight equipment; protective clothing; ejection seats; restraint systems; escape and descent systems; survival equipment; and support systems

U.S. AIR FORCE

648th Aeronautical Systems Squadron (AESS)

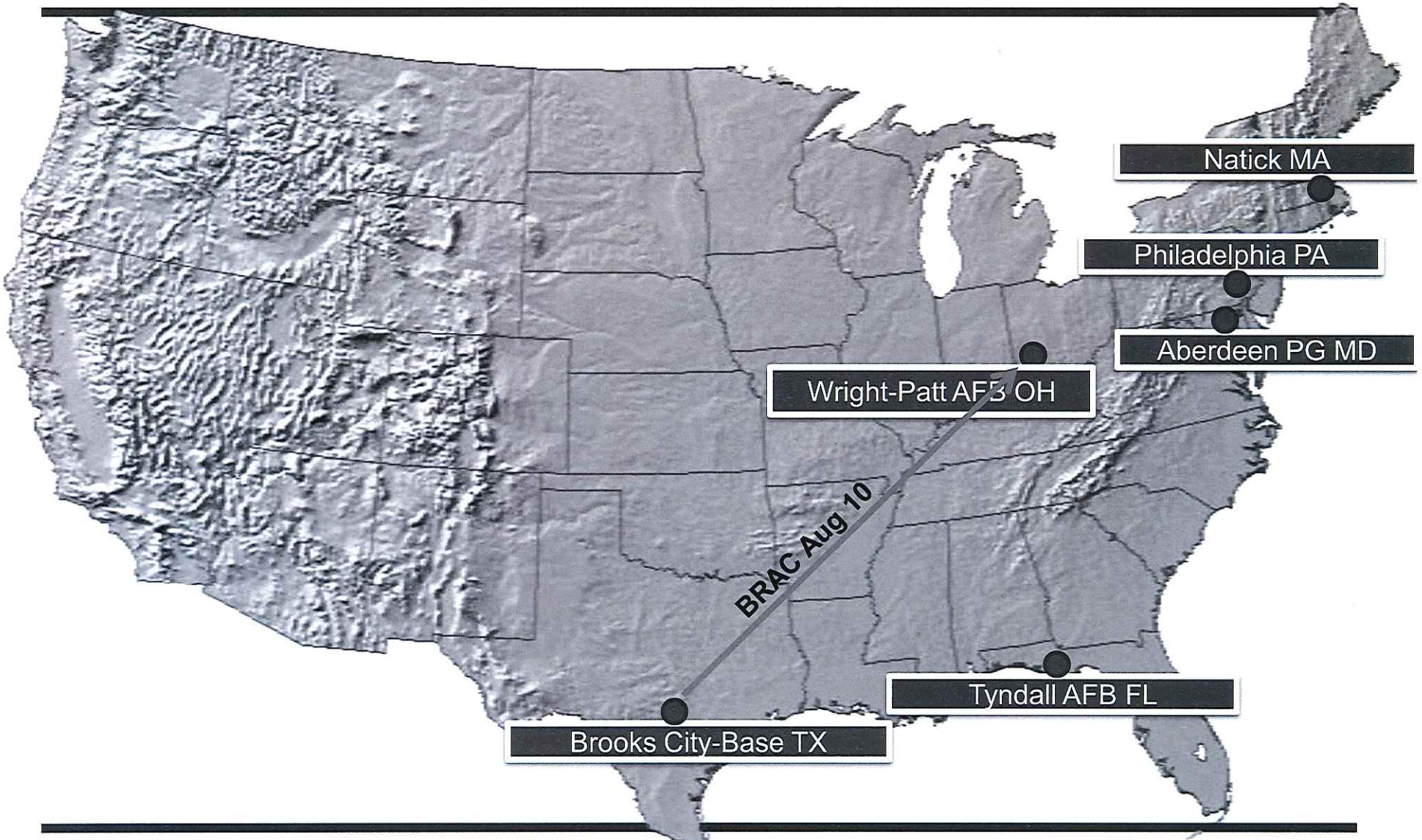
- 648 AESS Mission:
  - Acquire, sustain, and analyze the best human-centered equipment at the right cost to maximize warfighter capabilities through the focused effort of unique multi-disciplined experts
  - We are with our Airmen everyday…until they come home
- 648 AESS Vision:
  - The leading expert in human-centered systems exploring every opportunity to improve and sustain warfighter capabilities

77th Aeronautical Systems Group...
Every Airman! Every Aircraft! Every Day!

The 77th Aeronautical Systems Group maximizes combat power and survivability of airmen through cross-enterprise materiel solutions that address required Air Force capabilities.

77 AESG Unit Locations

U.S. AIR FORCE



Integrity - Service - Excellence

U.S. AIR FORCE

648 AESS Programs

- Modular Aircrew Common Helmet
- Active Helmet Noise Reduction
- Personal Locator Beacon
- Aircrew Laser Eye Protection
- Advanced Concept Ejection Seat
- Fixed Aircrew Standard Seat
- Fire Resistant AF Equipment
- Integrated Aircrew Ensemble
- Commercial Off the Shelf/Non-Developmental Items
- Air Force Uniforms
- Life Sciences Equipment Laboratory
- Materials and Textiles Laboratory

U.S. AIR FORCE

648 AESS Key Initiatives

- **Aircrew Performance**
  - Integrated Aircrew Ensemble
  - Aircrew Laser Eye Protection (Visor)
  - Modular Aircrew Common Helmet
  - Flash Blindness Goggles
  - Low Profile Parachute
- **Air Force Uniforms**
  - Fire Resistant (Boots, Gloves, Socks, Balaclava)
  - Extreme Cold Weather Gear
  - Stain Resistant Boots
  - Next Generation Airman Battle Uniform

THOMAS J. MILLS
Program Manager - SOF Survival, Support and Equipment Systems (PM SOF-SSES)
USSOCOM / NSRDEC, Natick MA 01760
Phone (508) 233-6444

Experience:

- 2008-Present, USSOCOM, PM-SOF-SSES, Program Manager
- 2006-2008, USSOCOM, PM-SOF Survival Systems, Assistant Program Manager – Special Programs
- 2003-2006, Wilcox Industries, Corp., Vice President of Marketing and Business Development
- 1996-2003, Naval Special Warfare Development Group, Requirements Officer, Acquisition Program Manager and Director of Combat Development Activities
- 1992-1996, Naval Sea Systems Command, Project Manager
- 1980-1992, Active Duty, US Navy SEAL

Background: Mr. Mills served an illustrious twenty-one year career with the US Navy. Upon completion of his formal in-service training, Mr. Mills attended Basic Underwater Demolition/SEAL (BUD/S) training in Coronado CA. After graduation, Mr. Mills was first assigned to SEAL Team TWO and later transferred to the Naval Special Warfare Development Group. In 1992, Mr. Mills was promoted to the rank of Chief Warrant Officer.

In 1992, Mr. Mills was reassigned to the Naval Sea Systems Command as the Project Manager for Special Programs where he directly managed projects and programs in the following portfolios: Special Purpose Munitions and Explosives, Special Purpose Weapons, Ground and Maritime Mobility Systems, Communications, Night Vision and Electro-Optics, Specialized Training Facilities, Personal Survival Systems, Submersible Operations and Ballistic Protection Systems.

In 1996, Mr. Mills returned to the Naval Special Warfare Development Group where he served as the Command Requirements Officer, Acquisition Program Manager and the Director of Combat Development Activities. In these capacities, Mr. Mills was responsible for all facets of cradle-to-grave management and program execution for the following functional areas; Soldier Survival, Maritime and Ground Mobility Systems, C4ISR, Tactical Engagement/Weapon Systems, Special Purpose Munitions and Explosives, Explosive Ordnance Disposal Systems, NBC Systems, Visual Augmentation Systems, and Classified Programs.

In 2003, Mr. Mills ventured into private industry and served as the Vice President of Marketing and Business Development at Wilcox Industries Corp. located in Newington, NH. In 2006, Mr. Mills returned to government service as the Assistant Program Manager for Special Programs for the USSOCOM PM-SOF Survival Systems (PM SSS), Natick, MA. In 2008, Mr. Mills assumed the position as Program Manager and oversees the acquisition of SOF Survival, Support and Equipment Systems efforts. As the Program Manager, Mr. Mills direct reports to the USSOCOM Program Executive Officer-SOF Warrior and Program Executive Officer-Special Programs. Under the current portfolio, Mr. Mills manages the following commodities: Ballistic Protection, Load-Bearing Equipment, Personal Survival Systems (Environmental Clothing, Footwear, Gloves, etc), Tactical Climbing and Vertical Ascent Systems, Air Operations Equipment and Life Support Systems, Laser/Ballistic Eye Protection, Communication Headset Systems, Combat Identification / Identify Friend or Foe, Helmet / Head Mounted Systems, Maritime Systems, Tactical Environmental Protection, Personal Signature Management, and the Tactical and Combat Casualty Care and other specialized systems for USSOCOM .

8

Col Kurt D. "Slugger" Wilson

EXPERIENCE:

Defense Supply Center Philadelphia- 2008-present, Director, Clothing and Textiles

Maxwell AFB - 2006 – Dec 2007 Student, Air War College

Moody AFB - 23rd Maintenance Group: 2005-2006 - Deputy Group Commander

Robins AFB - Warner-Robins ALC: 2004-2005 - Executive Officer for two-star WR-ALC/CC

Robins AFB - Warner-Robins ALC: 2003-2004 - Chief, Combat Programs Acquisition Management Branch

US Central Command - Riyadh, Saudi Arabia: 2002-2003, Director of Logistics

Robins AFB - Warner-Robins ALC: 2001-2002, Chief, Avionics Production Operations Branch

Robins AFB - 653rd Combat Logistics Support Squadron: 1999-2001, Commander

Robins AFB - Warner-Robins ALC: 1998-1999, Branch Chief, C-5 Production Support Branch

Robins AFB - Warner-Robins ALC: 1996-1998, USAF Logistics Career Broadening Officer

Little Rock AFB - 314th Supply Squadron: 1993-1996, Mat'l Mgt & OPS Spt Flight Commander

Scott AFB - HQ AMC, Directorate of Logistics: 1990-1993, Maintenance Mgt Systems Staff Officer

Little Rock AFB - 1987-1990, Maint Ofcr, Ofcr in Charge, Flightline & Inspection Branch, then Maint Supv

EDUCATION:

1986	Bachelor of Science	Business Adm/Mgt	Southeast MO State Univ
1995	Masters of Science	Business Mgt/Industrial Production	Univ of Arkansas
2007	Masters of Science	Strategic Thinking	Air War College

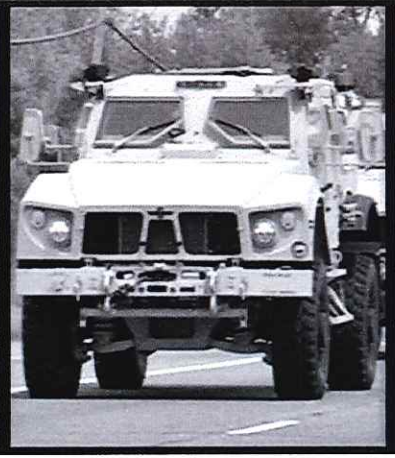
PME:

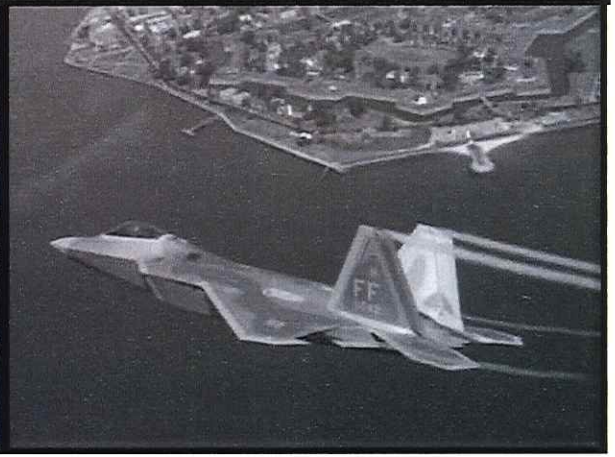
1990: Squadron Officer School
1999: Air Command Staff College
2007: Air War College

SPECIAL CERTIFICATION: Acq Pgm Lvl III Certified, Life Cycle Management

DEFENSE LOGISTICS AGENCY

AMERICA'S COMBAT LOGISTICS SUPPORT AGENCY





DSCP
Clothing & Textiles

Col Kurt D. Wilson
kurt.wilson@dla.mil

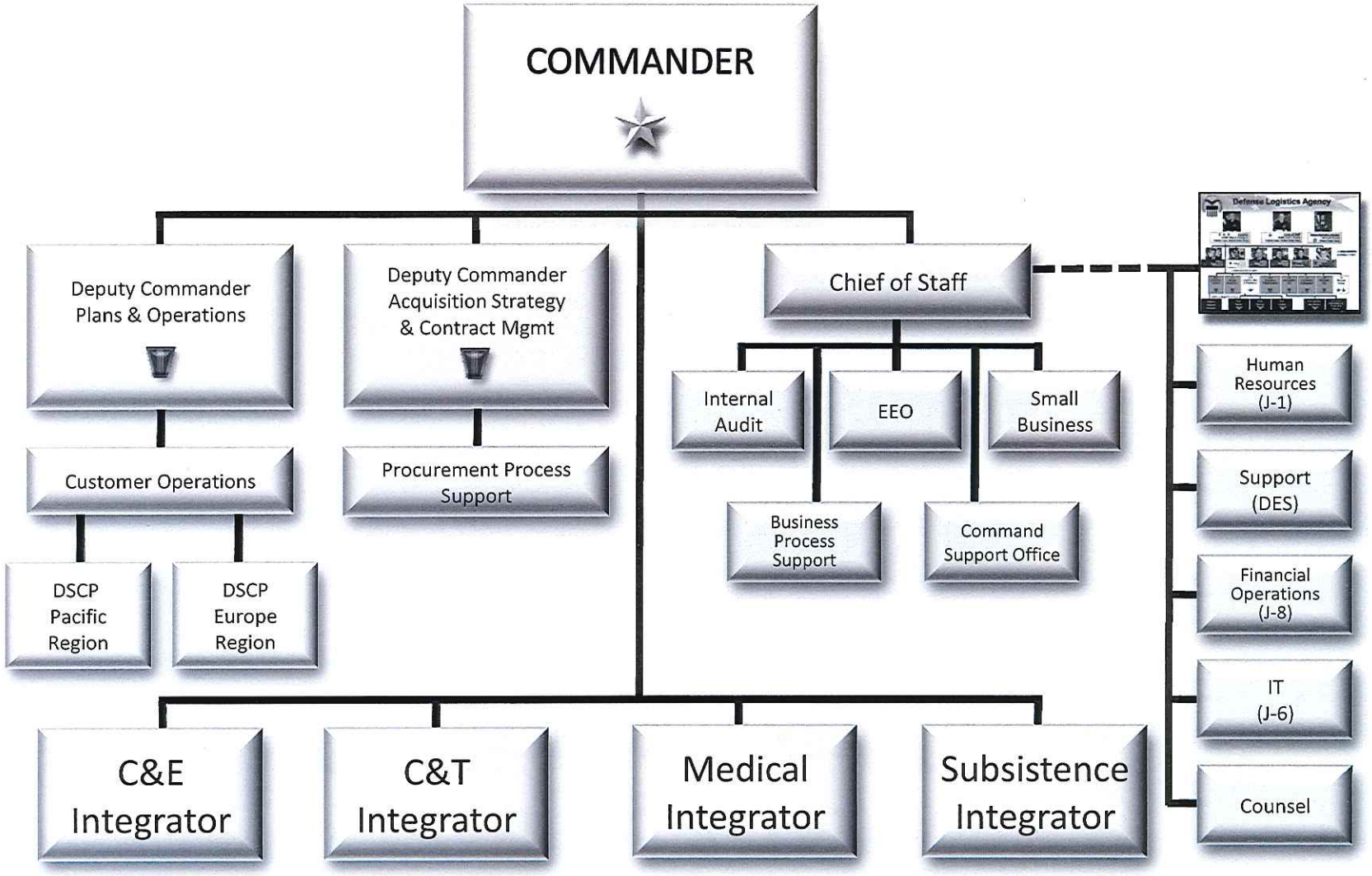
WARFIGHTER SUPPORT ENHANCEMENT STEWARDSHIP EXCELLENCE WORKFORCE DEVELOPMENT

Clothing & Textiles Mission

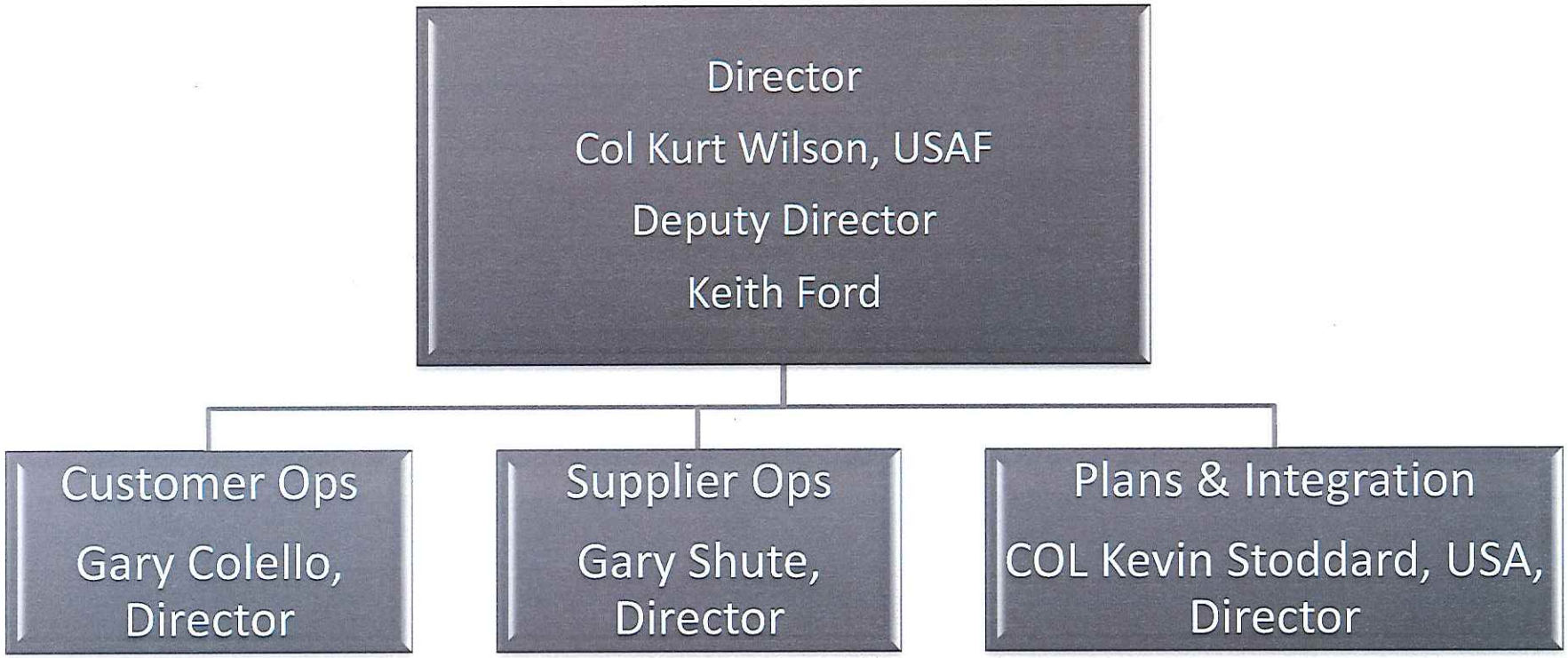
Provide dress and field uniforms, field gear, tentage, and personal chemical protective items to the Armed Forces in peace and in war

- End items and components
- Fire resistant items
- Body Armor
- Testing and evaluation…

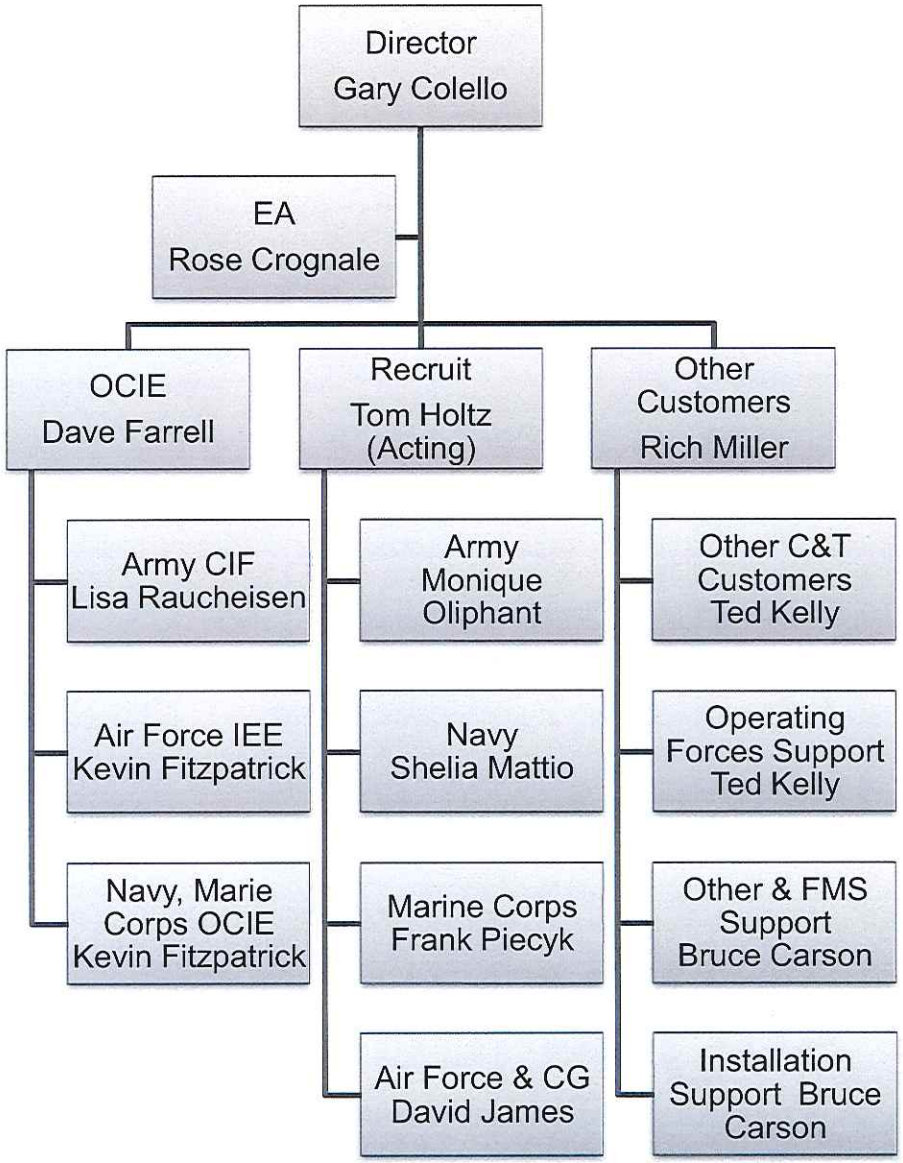
Troop Support Command



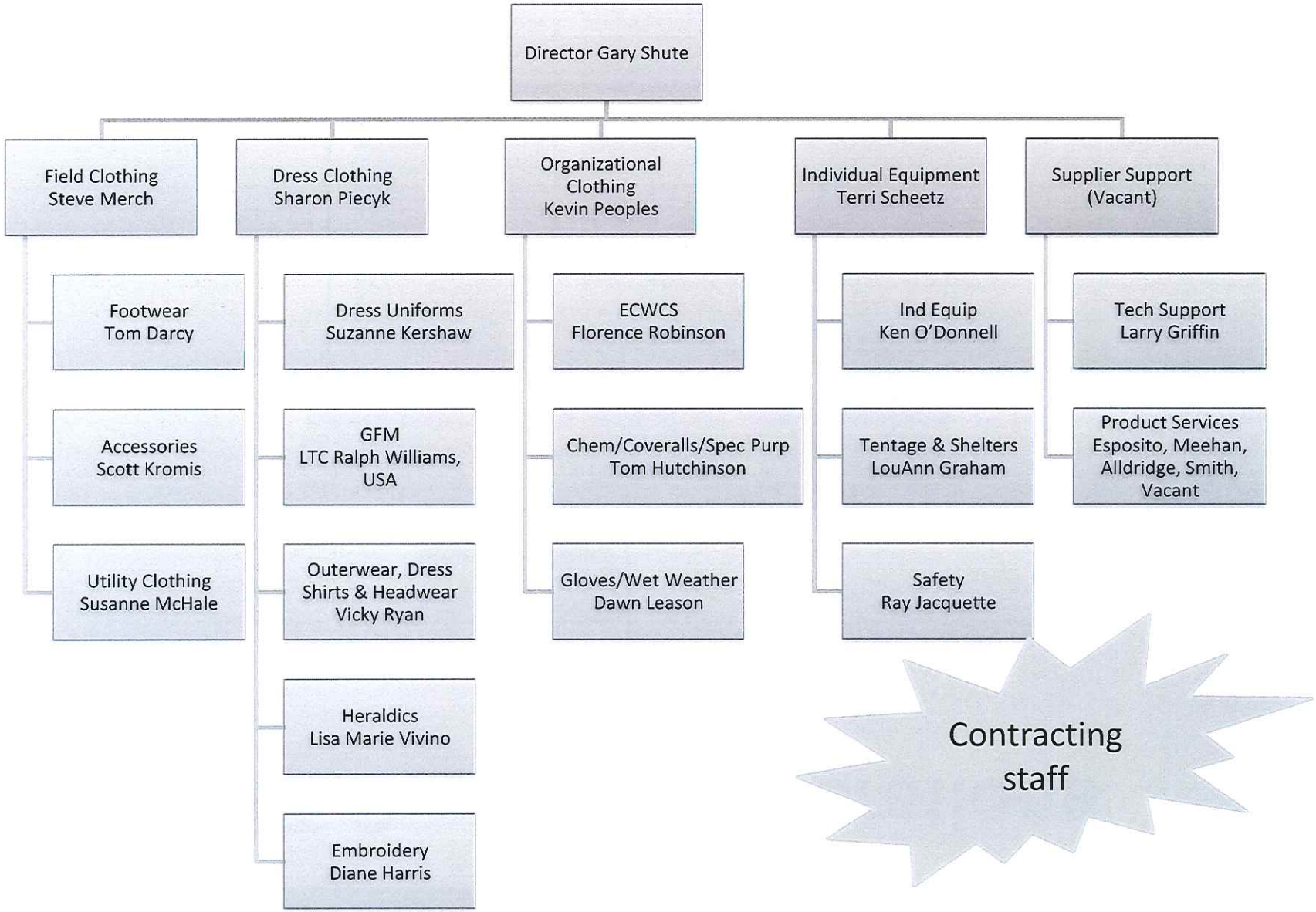
Clothing & Textiles
Our Management Team



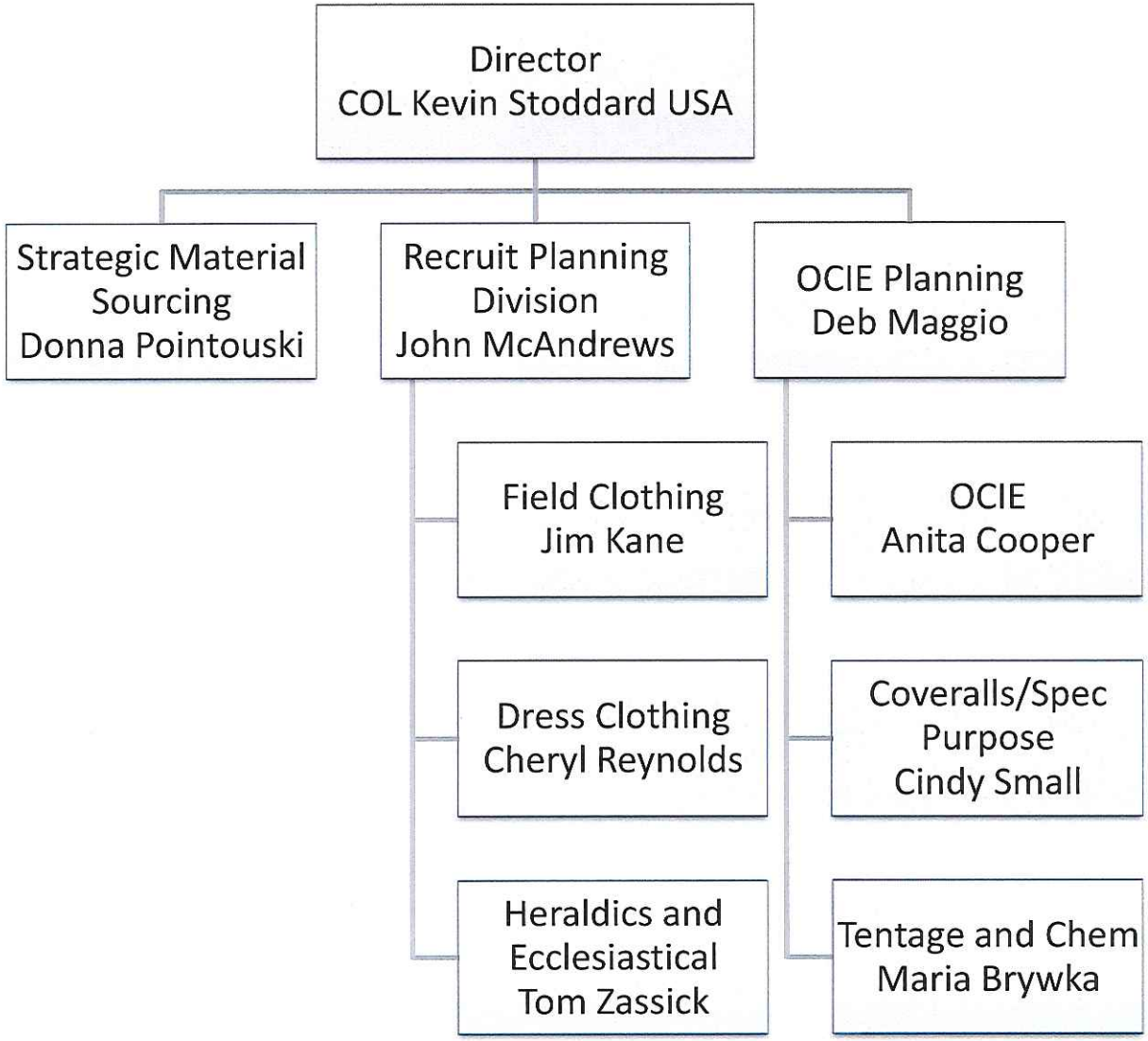
C&T Customer Operations



C&T Supplier Ops



Plans and Integration



Who To Contact

Clothing & Textiles contracting staff organized in Divisions by Product Group and Programs

• Director, Supplier Ops	Gary Shute	(215)737-3220
• Dress Clothing:	Sharon Piecyk	(215)737-3257
• Field Clothing:	Steve Merch	(215)737-2401
• Organizational Clothing:	Kevin Peoples	(215)737-5657
• Equipment & Tentage:	Terri Scheetz	(215)737-3274
• Director:	Col Kurt D. Wilson kurt.wilson@dla.mil	(215)737-3001
• Deputy Director:	Keith Ford keith.ford@dla.mil	(215)737-3000
• Administrative Assistant:	Irene Pirollo irene.pirollo@dla.mil	(215)737-3002

EDWARD J. DOUCETTE
Director
Warfighter Protection and Aerial Delivery Directorate
Natick Soldier Research, Development and Engineering Center
US Army Research, Development and Engineering Command
Kansas Street
Natick, MA 01760-5017

Mr. Edward Doucette is the Director of the Warfighter Protection and Aerial Delivery Directorate (WarPAD^2), Natick Soldier Research, Development and Engineering Center in Natick, Massachusetts.

The WarPAD^2 mission is to conduct technology advancement and life cycle engineering for individual warfighter equipment and systems, military parachuting and cargo airdrop systems across all Services.

Mr. Doucette began Government employment at Natick as a Shelters Development Project Engineer in the then Aero-Mechanical Engineering Directorate. He then held progressively more challenging positions as Project Officer, Division Chief, and Deputy Director in the Directorate.

During his career at Natick, Mr. Doucette has also been assigned as the Special Assistant to the Technical Director for the DoD Combat Feeding Program, Technology Staff Officer Intern at the Office of the Assistant Secretary of the Army for RD&A, and HQ, TROSCOM RDEC Liaison Officer.

Prior to Government Service, he worked for General Dynamics Electric Boat Division, as a submarine component design engineer.

Mr. Doucette has a Bachelors of Science degree in Mechanical Engineering from the University of Massachusetts and a Masters of Science in Acquisition Program Management from the Naval Post Graduate School. He is a member of the Army Acquisition Corps, is Level III Acquisition Certified in Systems Planning RDT&E and Program Management.

Mr. Doucette's awards and achievements include the Army's John W. Macy Award for Leadership, Army Acquisition Corps Award for Academic Achievement, Army Achievement Medal for Civilian Service and the U.S. Army Parachutist Badge. He is a member of the American Institute of Aeronautics and Astronautics.

RDECOM

US ARMY NATICK SOLDIER RD&E CENTER

JOHN (JACK) P. OBUSEK, SC.D.

ASSOCIATE DIRECTOR, STRATEGIC PLANS & PROGRAMS, NATICK SOLDIER RESEARCH, DEVELOPMENT AND ENGINEERING CENTER

ASSUMPTION OF CURRENT POSITION:

1 June 2008

DESCRIPTION OF RESPONSIBILITIES:

Dr. Jack Obusek is the Associate Director of the US Army Natick Soldier Research, Development and Engineering Center (NSRDEC) with the responsibility for strategic plans and programs. In cooperation with the Army's warfighting and acquisition organizations, he develops the strategic science and technology (S&T) priorities for the NSRDEC, recommends investments for the entire portfolio of NSRDEC science and technology, and is responsible for reviewing the execution of the S&T programs.

Prior to his current assignment, Dr. Obusek served as the acting Technical Director, NSRDEC from Mar 2007 - Sept 2007. From Feb 2004 - Feb 2007 he served as Chief of the Human Systems Integration and Sciences Division, NSRDEC and was responsible for planning, organizing, and managing all basic and applied human research programs. The Division's research areas included anthropology, biomechanics, cognitive performance, consumer product acceptance, and human factors, as well as human systems integration programs for warfighter products.

His experience includes over 27 years of active duty service in the Army, culminating with assignment as the Commander of the US Army Research Institute of Environmental Medicine, Natick, Massachusetts. From Aug 2000 – Sep 2003, Dr. Obusek, was responsible for the overall direction and management of the Institute including planning, directing, and leading the staff in solving broad operational problems in mitigating the effects of environmental extremes of warfighter performance. He was responsible for formulating local policies, programs and objectives governing human, financial, facilities and technology management for an environmental and occupational medicine research facility. He also served as United States representative to a NATO Medical Research Panel.

- Aug 1998 – Aug 2000 Deputy Commander, US Army Research Institute of Environmental Medicine
- Sep 1995 – Aug 1998 Senior Research Physical Therapist, US Army Research Institute of Environmental Medicine
- Oct 1984 – Jun 1986 Career Plans and Assignment Officer, US Army Personnel Command
- Dec 1977 – Sep 1992 Chief Physical Therapist/Staff Physical Therapist, Various US Army Medical Facilities

CIVILIAN EDUCATION:

- Sep 1995 Doctor of Science in Applied Kinesiology (with Distinction) Boston University, Boston, MA
- Dec 1977 Master of Physical Therapy, Baylor University, Waco, TX
- Jun 1976 Bachelor of Arts in Biological Sciences, University of Delaware, Newark, DE

MILITARY EDUCATION:

- Jul 2000 Military Health System Executive Skills Capstone Course, Washington, DC
- Jun 1997 US Army War College, Carlisle, PA
- Jun 1998 US Army Command and General Staff College, Ft Leavenworth, KS

SIGNIFICANT AWARDS:

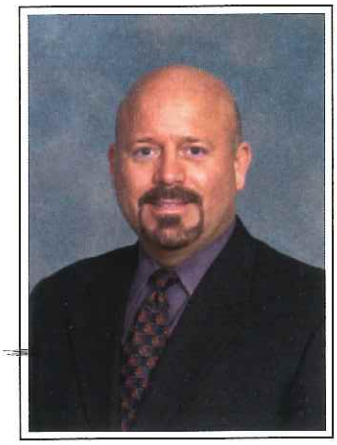
- 2006 Louis Dellamonica Award for Outstanding US Army Material Command (AMC) Personnel of the Year
- 2003 Legion of Merit
- 1999 Army Medical Specialist Corps Research Award
- 1998 Department of the Army Research and Development Achievement Award
- 1994 The Army Surgeon General's "A" Proficiency Designator

PROFESSIONAL MEMEBERSHIP:

- Sigma XI. The Scientific Research Society of North America

DONALD J. WAJDA

DIRECTOR, TECHNOLOGY, SYSTEMS & PROGRAM INTEGRATION
NATICK SOLDIER RESEARCH, DEVELOPMENT AND ENGINEERING CENTER



Mr. Donald Wajda is the Director of the Technology, Systems and Program Integration Directorate at the U.S. Army Natick Soldier Research, Development and Engineer Center (NSRDEC) in Natick, Massachusetts. In this position, he manages the development, maturation, integration and experimentation of Soldier System Technologies and Homeland Security/ Emergency Responder issues as they relate to personal protective clothing and equipment, Modeling and Analysis, Technology Transition into NSRDEC items/programs, Systems Engineering/Systems Integration and Soldier portable UAVs. Additionally, he supervises the transition of modular and reconfigurable soldier system technologies that benefit and serve the next generation warfighter's operational capabilities.

The mission of the NSRDEC is to plan, organize, direct and conduct research, development and engineering for the Army and other services in order to maximize the individual warrior's survivability, sustainability, mobility, combat effectiveness and quality of life in the field; and to integrate the domains of lethality and command, control and communications into the "soldier system." This includes commodity responsibilities for clothing and individual equipment, combat rations and field feeding equipment, shelters and field services equipment and personnel and cargo airdrop systems.

Prior to his current position, Mr. Wajda served as Associate Director of Technology; the Deputy Director of Individual Protection; Liaison to the Deputy Assistant Secretary of the Army for Research & Technology; Chief of the Research, Development and Engineering Support Division; and Chemical Defense Coordinator.

Mr. Wajda received his BS degree in Chemical Engineering from Rensselaer Polytechnic Institute in 1978. Upon graduation, he was hired by the Army Materiel Command into a yearlong training program at the Intern Training Center in Texarkana, TX. In 1979 he received an MS degree from Texas A&M at Texarkana. He has been a member of the Army Acquisition Corps since 1994.

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US ARMY NATICK SOLDIER RD&E CENTER

DR. JOHN GASSNER

DIRECTOR, WARFIGHTER SCIENCE, TECHNOLOGY & APPLIED RESEARCH DIRECTORATE
NATICK SOLDIER RESEARCH, DEVELOPMENT & ENGINEERING CENTER

Dr. John Gassner has over 35 years of experience in research, development and engineering within the Government and private sectors. He currently serves as the Director of Warfighter Science, Technology & Applied Research Directorate, leading an organization performing work in material, chemical, physical, behavioral, cognitive, biological, and mathematical sciences in support of advanced soldier systems. Before joining the Natick Soldier Research, Development & Engineering Center in 2001, he worked for 14 years at Foster-Miller, Inc., a contract research and development firm in Waltham, MA. At Foster-Miller, he served in various technical roles including materials research as well as in managing hardware development. He also served as Chief Technologist and as Head of the Emerging Technology Division, where he was involved in developing and applying advanced materials to practical problems in the military and civilian sectors.

Prior experience includes serving at the Army Materials and Mechanics Research Center (Watertown, MA) in both technical and management positions, including serving as head of the Program Planning Division and the Polymer Research Division. He also has prior experience at the US Army Aviation Systems Command, where his work involved transition of innovative aircraft materials and processing techniques.

Dr. Gassner graduated from the Catholic University of America in 1969 and entered civil service at the Army's Logistics Intern Training Center, Texarkana, TX. He was appointed a Secretary of the Army Research and Study Fellow by former Army Secretary Clifford Alexander. Dr. Gassner is a former member of the National Materials Advisory Board (NMAB) of the National Research Council. He holds the Sc.D. degree from the Department of Materials Science and Engineering at MIT.

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US Army Natick Soldier Research Development & Engineering Center Overview

US ARMY NATICK SOLDIER RD&E CENTER

TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.

Soldier Systems Advanced Planning Briefing for Industry
19-20 May, 2010

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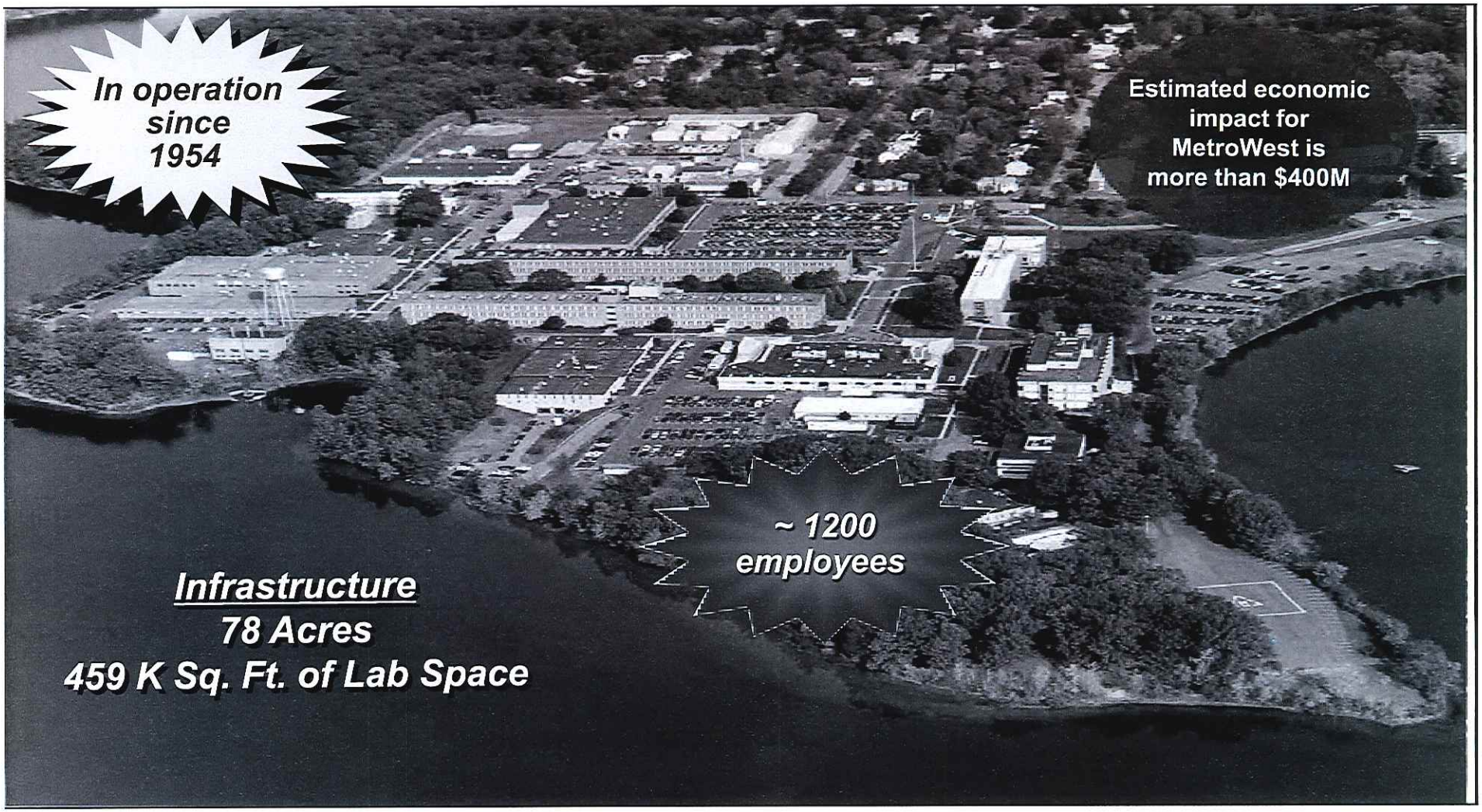
Natick Soldier Systems Center
Natick MA



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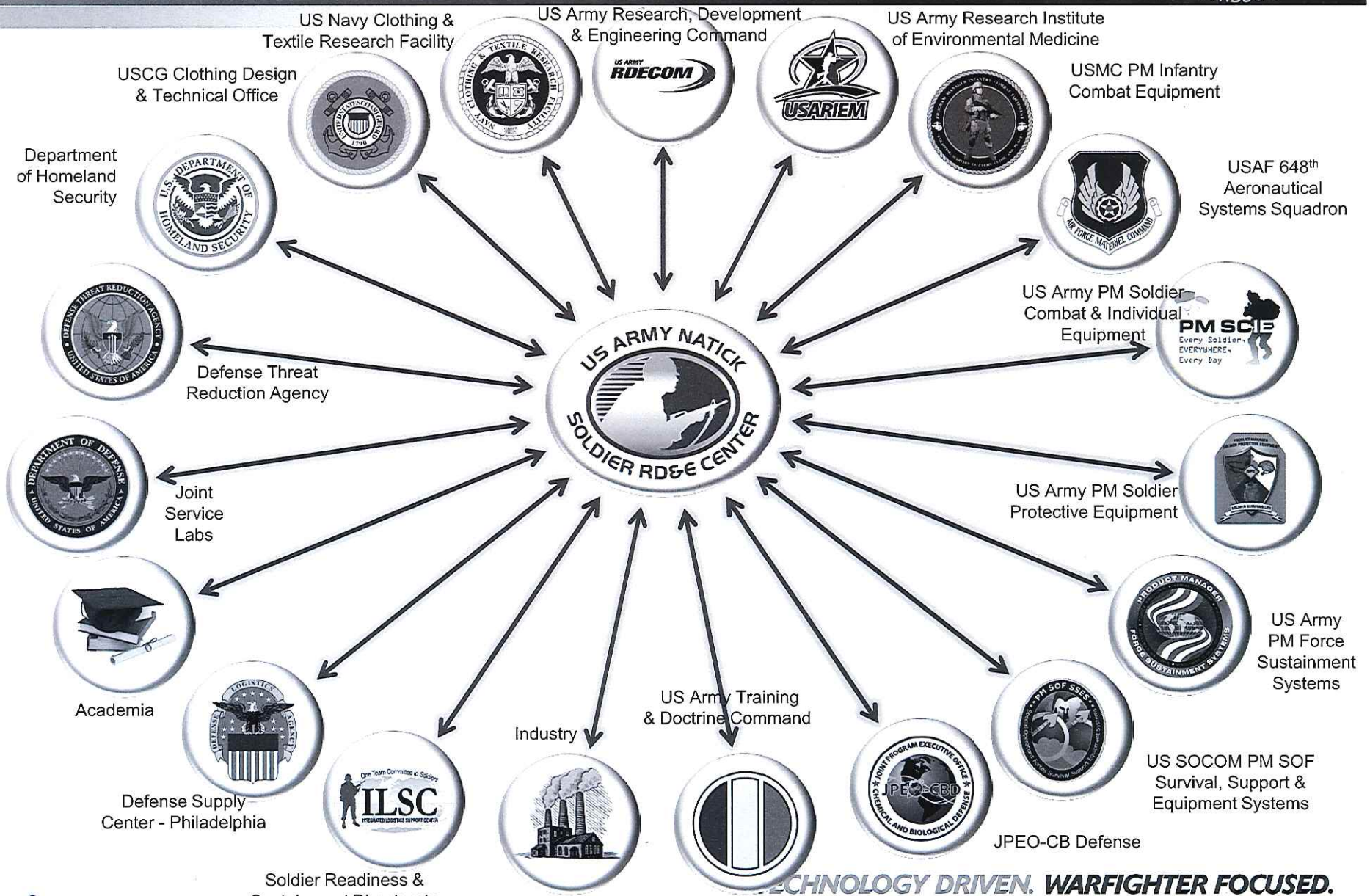
Warfighter Equipment & Systems Partnerships



TECHNOLOGY DRIVEN. **WARFIGHTER FOCUSED.**

UNCLASSIFIED

Natick Soldier RD&E Center Focused On The Soldier Domain

Transformation To The Future Force And Supporting The Current Fight With The Warfighter As The Centerpiece Of The Formation

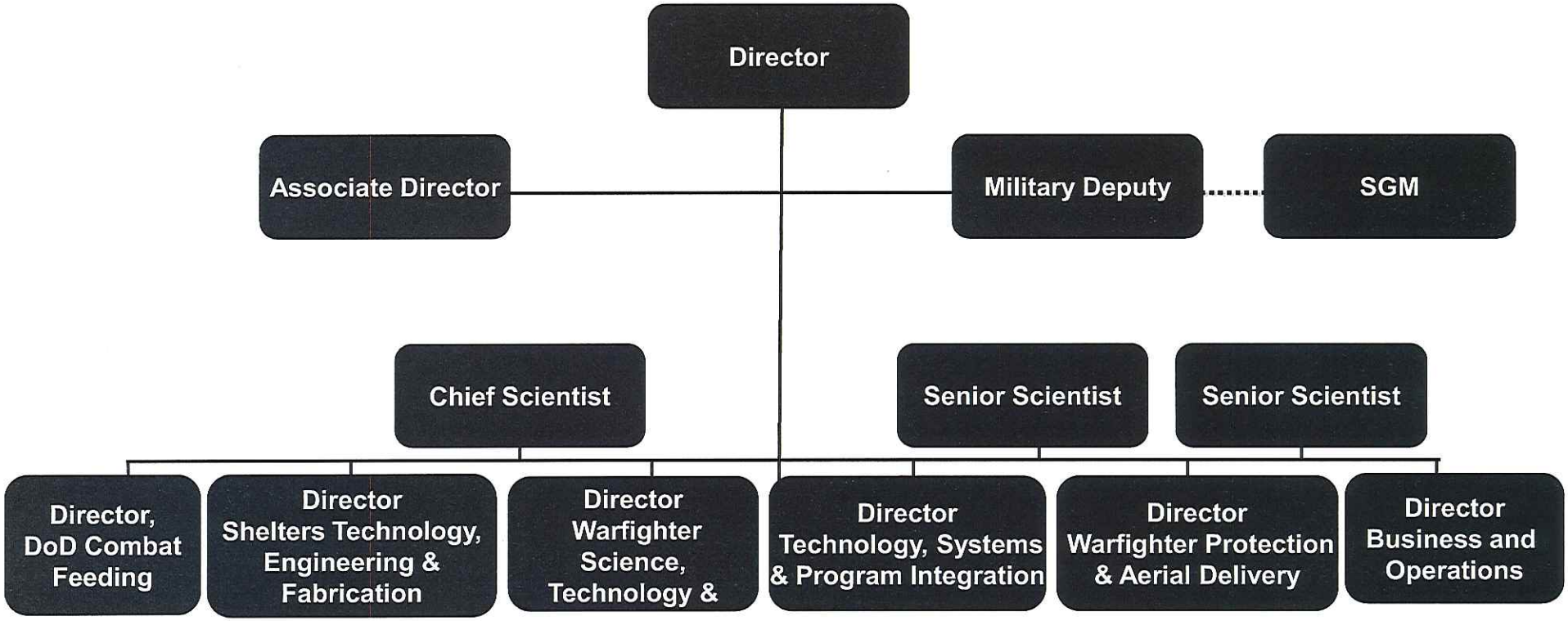
Mission:

- **RD&E** To Maximize The Warfighter's Survivability, Sustainability, Mobility, Combat Effectiveness And Field Quality Of Life By Treating The Warfighter As A System
- **Adding Value Through:**
  - Technology Generation, Application, And Transition Enabling Rapid Fielding Of The Right Equipment
  - Soldier Systems Technology Integration And Transition
  - Solving Field Problems Rapidly

Vision:

- To Be The Recognized Center For Warfighter And Homeland Defender Related Research, Technologies And Systems

NSRDEC Executive Team



http://www.army.mil/info/organization/natick

Office of Military Deputy

- **Current Operations Cell**
  - **Quick Reaction Coordination**
  - **Oversee of funding opportunities for immediate solutions**
  - **Greening Program**
  - **S&E Field Experience with Soldiers Program**
- **Operational Forces Interface Group**
  - **Exhibits/Technical Displays**
  - **Field/User Assessments/Surveys**
  - **User Hot line**
  - **New Equipment Training**
- **HQ R&D Detachment**
  - **Managing approx. 30 Human Research Volunteers**
- **Office of Chaplaincy**

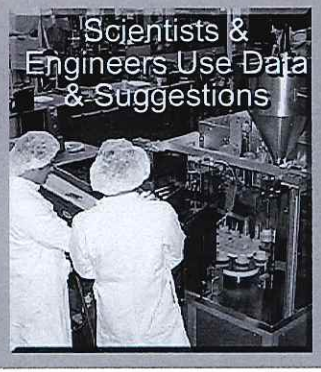
6 Installation Visits
19 User Evaluations
6 Web Surveys
1 Workforce Survey
74 Exhibit/Technical Displays

NSRDEC's Greening and Scientist &Engineer Field Experience with Soldiers Programs bridge gaps between Warfighter and civilian employees

Supported Overseas Contingency Operations by deploying 3 Soldiers for 6 month rotations serving as a Science and Technology Assistance Team. Traveled through Area Of Responsibility meeting with Soldiers, Commanders, and staffs to document technology gaps and link those gaps to R&D centers providing solutions to the Warfighter in the U.S., e.g., Improvised Explosive Device Detect, Defeat, & Deter, waterproof boots, Army Combat Uniform for medics

Critical Field Data

Customer Suggestion

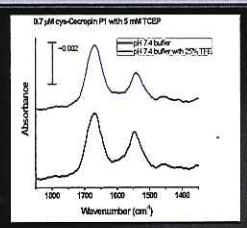


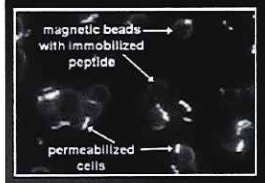
Improved Products

TECHNOLOGY DRIVEN. ***WARFIGHTER FOCUSED.***

Supporting Science & Technology

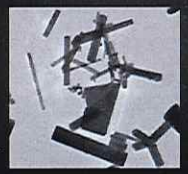
- Anthropometry
- Biomechanics
- Sensory & Consumer Research
- Soldier Performance/ Cognition
- Human Factors/ MANPRINT
- Nanotechnology
- Biotechnology
- Polymer Science & Engineering
- Modeling & Analysis





Developed a suite of analysis methods that provide an unprecedented ability to understand and predict peptide structure, orientation, and antibacterial functionality at surfaces

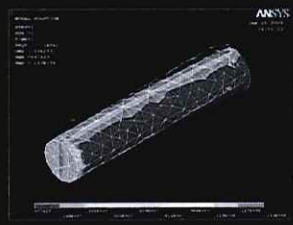
Demonstrated ability to tailor the photoluminescence properties of Nanocrystalline ZnO, discovered a novel encapsulation process, and hypothesized a theory which supports novel optical sensors, taggants for Friend vs. Foe applications, and photovoltaic



Unmodified nano-Zno

Thiol-modified nano-Zno

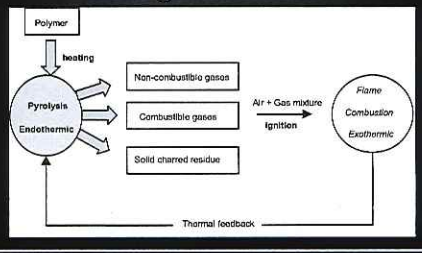
Demonstrated impact of arousal and mood on cognitive performance as assessed by memory for spatial and verbal information



Creating a temperature adaptive thermal insulation for textile applications by combining new tricomponent fiber spinning capability and finite element modeling

Developing new analyses to predict the onset of fatigue through a dynamical systems model and non-linear analyses

Creating a novel class of synthetic siloxane copolymers and developing fundamental understanding of the thermal degradation mechanism in polymeric Flame Resistant materials, which could lead to design of new, environmentally-safe polymeric coatings and fibers



Contributing to scientific field of carbohydrate chemistry in the areas of biofermentation and bioenergy by working on the ID of two novel bacterial isolates for the degradation of cellulose and the ID of fundamental processes involved in the preferential hydrolysis of highly crystalline cellulose for potential breakthrough in biofuel research

TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.

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DoD Combat Feeding

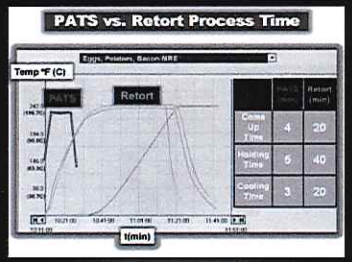
- Combat Rations
- Field Food Service Equipment
- Combat Feeding Systems

- S&T Thrusts Areas:
  - Energy & Equipment
  - Food Safety/Biosensors
  - Novel Preservation & Stabilization
  - Novel Nutrient Delivery
  - Revolutionary Packaging
  - M&S/Logistics

PARTNERS:

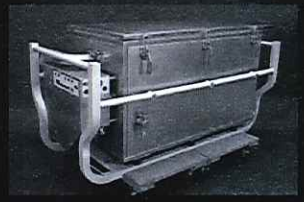
- **All Services**

Expanded First Strike Ration® (FSR®) menus from 3 to 9 with the successful application of "hurdle technology", a progressive method for controlling microbial growth



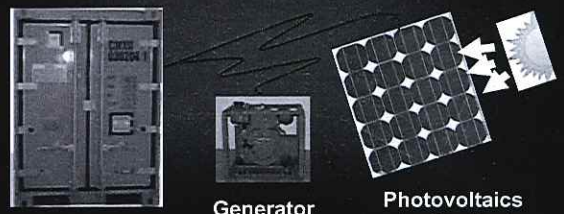
Pressure Assisted Thermal Sterilization (PATS) process for food was approved by Food and Drug Administration and provides near fresh quality entrees without refrigeration

Selfpowered Tray Ration Heater with 85% system efficiency (combined heat and electric) compared to 5% electrical efficiency of legacy system; transitioned to PM FSS for Production Qualification Tests.

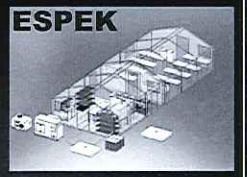


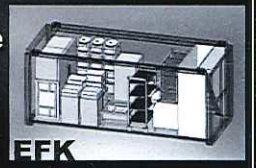
Conducted comprehensive nutritional analysis of operational rations

Transitioned Solar-Powered Refrigerated Containers to PM Force Sustaintment Systems



Provided Systems Equipment and Engineering support for the development of the Air Force Electric Single Pallet Expeditionary Kitchen (ESPEK) and the Marine Corps fuel-fired Expeditionary Field Kitchen (EFK)





Collective Protection

- Softwall Shelters
- Rigidwall Shelters
- Collective Chem/Bio Defense

- S&T Thrust Areas
  - Barrier Materials
  - Structures
  - Energy Management
  - Anchorage
  - Finite Element Analysis
  - Ballistics

PARTNERS:

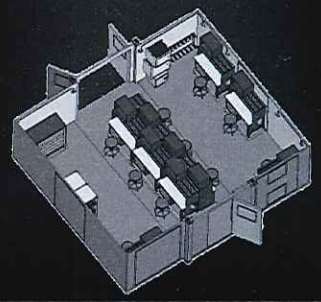
- Air Force
- Marine Corps
- Special Operations
- Navy

Supported deployment of Large Area Maintenance Shelters (LAMS) for helicopter and vehicle maintenance

- 26 missions
- 25 new LAMS
- 11 RESET
- on 4 continents

Modular Ballisting Protective Shelter (MBPS) TEMPER (which protects fabric structures) and MBPS RW (which is used for rigid wall shelters) both received Safety Confirmation and Capabilities and Limitations Records

Developed prototypes to replace existing Marine Corps Communications Electronics Equipment Maintenance Complex utilizing One-Side and Two-Side Expandable Army Standard Family ISO Shelters.



In support of ARDEC and 2 Operational Needs Statements, designed and fabricated a fabric camouflage cover for rear HMMWV gun turret to protect Soldiers from snipers, a growing problem in theater

Provided Systems Engineering and Test and Evaluation support to the Joint Program Manager for Collective Protection (JPM-ColPro) for their new highly mobile Chemical & Biological Protective Shelter Model 8A4 (CBPS-M8A4)

Designed and fabricated 5 improved Fire Direct Centers in support of modernizing the Marine Corps Advanced Field Artillery Tactical Data System

Prototypes featured:

- more square footage
- integrated environmental control unit
- modern electronics

TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.

Airdrop/Aerial Delivery

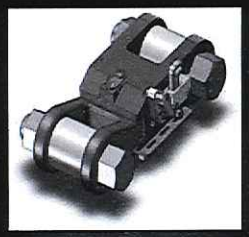
- Personnel Parachuting Systems
- Cargo Airdrop Systems

- S&T Thrust Areas:
  - Precision Airdrop (sensors, guidance & control systems)
  - Integrated Logistics Aerial Resupply
  - Modeling and Simulation
  - Parachutist Safety
  - Test Instrumentation
  - Materials Research

PARTNERS:

- Army
- Air Force
- Marine Corps
- Special Operations
- USTRANSCOM
- USJFCOM
- OSD

By end of FY08, Low Cost Low Altitude Airdrop System flew over 2,300 missions with over 2.4 million lbs. of supplies delivered at 80% reduced cost

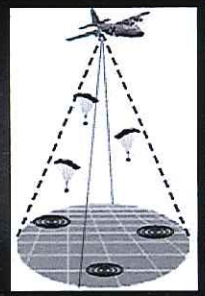


Tested, certified and fielded the Open Link Safety Device (OLSD) which is designed to eliminate an extraction-by-mains in the event of a premature Extraction Force Transfer Coupling (EFTC) release while the airdrop load is still inside of the aircraft

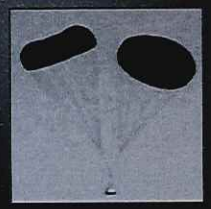
JPADS-Medium (20-30K lbs) successfully demonstrated:

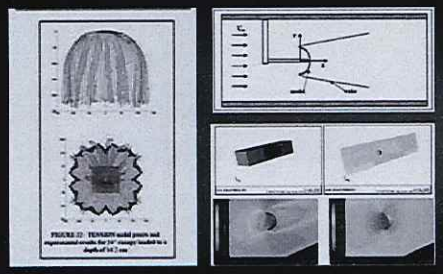
- Parafoil modularity feature expanded range to 18-40K lbs
- Technologies developed under 30K ATO are spiraling into PM-FSS JPADS Programs of Record

At the end of FY08, well over 1000 Combat airdrops and over 17 million lbs of supplies had been delivered by JPADS and ICDS using JPADS-Mission Planner



Successfully demonstrated Joint Improvised Explosive Device Defeat Organization (JIEDDO) Improved Container Delivery System (ICDS) which provides a low cost, one-time use 10K lbs airdrop system as an IED defeat mechanism





Anchored the Computational Solid Dynamics and Computational Fluid Dynamics components of our Parachute Fluid-Structure Interaction modeling effort to the results of similar experiments

Individual Protection

- Body Armor
- Combat Clothing
- Microclimate Conditioning
- Chemical Protective Gear
- Load Carriage
- Handwear
- Footwear
- Eyewear
- Environmental Clothing
- S&T Thrust Areas
  - Chemical/Biological Barrier Materials
  - Ballistic Protective Materials
  - Directed Energy (Eye) Protection
  - Environmental Protection
  - Camouflage
  - Multifunctional Materials

PARTNERS:

- Army
- Marine Corps
- Special Operations
- Navy
- Air Force
- DLA
- OSD

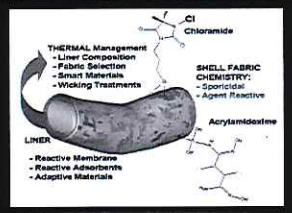
Developed prototypes and manufacturing process for facial armor with mounting systems compatible with various helmet sizes

Developed novel ballistic manufacturing technology for helmet shells, multifunctional headgear systems, & body armor

ARL ManTech

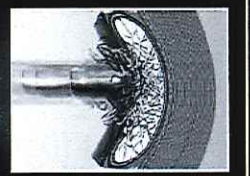
Resulting Reductions:
20-40% in touch labor
60-70% in scrap/waste
10-15% in weight
15-20% in cost

Developed Soldier eyewear technology with protection from ballistic & frequency agile laser threats; FY09 transition to PM FCS BCT & Ground Soldier System Spiral 3 S&T

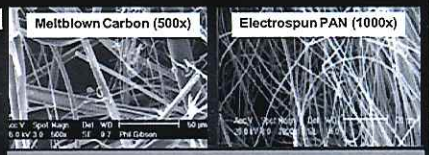


Developed novel fabric treatments & demonstrated self-decontaminating, lower thermal burden fabrics for new generation Chemical, Biological, Radiological, and Nuclear protective garments. Developing and demonstrating future CB ensemble concepts in FY10

Demonstrated feasibility of manufacturing Mosaic Extremity Protection (MEP) flexible body armor for small arms protection

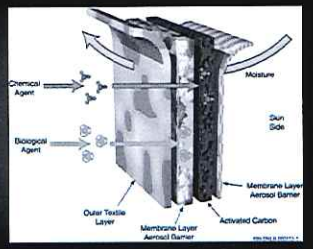


Patent awarded for "Thermal Insulation for Articles of Clothing"



Nanofiber Thermal Insulation Materials

Developed prototypes of Chemical/Biological Self-Decontaminating Membranes; transition to FY10 Future CB Ensemble/ Ground Solider System and FY11 Uniform Integrated Protective Ensemble (UIPE)



Quantified visual and thermal detection ranges through observer experiments for urban, desert, and woodland environments for Army Combat Uniform (ACU) and selected experimental systems

TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.

Technology & Systems Integration

- Technology Integration
- Systems Integration
- Human Sytems Integration

- S&T Thrusts Areas:
  - Advanced Concept and Technology Demonstration and Urban Terrain Office
  - National Protection Center
  - Soldier Systems Integration & Experimentation
  - Modeling & Analysis
  - Soldier Mobility & Mission
  - Soldier C4 Interfaces, Power & Lethality
  - Soldier Integrated Protection

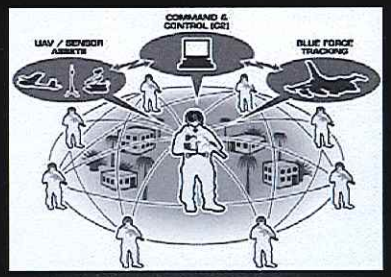
PARTNERS:

- Special Operations
- Marine Corps
- Department of Homeland Security
- OSD

Digital Data Link for the Raven Unmanned Aerial Vehicle (UAV) providing 4Xs available channels, increased range, improved video quality, relay capability, and encryption

Partnered to rapidly field 50 Air Warrior Microclimate Cooling Kits to Iraq

Analyzed the state of Chem/Bio protection standards, test methods & technologies relevant to the Law Enforcement community



Partnering with NSA and CERDEC to develop an NSA approved wireless Personal Area Network (WPAN) product and Application Module platform under Soldier Planning Interfaces & Networked Electronics (SPINE) ATO

IWARS Version Upgrade provided representation of a local Common Operational Picture (COP) and User Defined Operational Picture (UDOP) & linked with other simulations

Participated in the following FY08 Experiments:

- Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance on The Move (PM C4ISR-OTM 08)
- Joint Forces Experiments (JFEX)
- Air Assault Expeditionary Force (AAEF)
- MBL and AEWE Soldier Assessments
- Future Combat Systems (FCS)
- Follow-on Assessment of Soldier Systems Technology Maturity

TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.

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Current Major Focus Areas

US ARMY NATICK SOLDIER RD&E CENTER

- ***As the Recognized Center for the Soldier Domain, NSRDEC is:***
  - A key member of the Army team providing a new camouflage for Afghanistan
  - Leading an Office of the Secretary of Defense team focused on lightening the dismounted warrior load
  - Strategically identifying and filling Technology Gaps in the Soldier Domain such as Soldier Adaptability/Human Dimension; Expeditionary Mobile Base Camps; and Soldier Load
  - Updating the data base used to size all Soldier and Marine Corps Equipment
  - Directing a community of practice to address critical needs and future strategies to optimize individual protection – synchronizing the Acquisition, Science &Technology and Warfighter Communities
- ***NSRDEC is growing capabilities to better conceptualize and design Soldier/Small Unit solutions to current and future problems through:***
  - The Future Soldier Initiative – a future gazing effort
  - The Soldier Systems Integration Laboratory – a systems integration laboratory
  - The Soldier Protection and Equipment Capability – a demonstrator of fully equipped current and future Soldier platforms
  - Soldier Flatworld – a holistic visualization, evaluation and demonstration capability for

Pulling it all together to help maximize combat effectiveness of the Warfigher

Advance Planning Brief for Industry
20 May 2010

10:15 AM – 11:15 AM
Requirements *Hall 3*

Purpose: Provide Industry Partners responsible for coordination with Army Program Managers an overview of Joint Capabilities Integration and Development System to include rapid fielding efforts achieved through Operational Need s Statements, Capabilities Development for Rapid Transition, Soldier Enhancement Program and Rapid Fielding Initiative.

- ❑ Operational Needs Statements (ONS) – Process Operational field commanders use to identify an ONS to document the urgent need:
  - For a materiel solution to correct a deficiency
  - Improve a capability
  - Request HQDA to procure a new/emerging capability necessary for mission accomplishment.

- ❑ Capabilities Development for Rapid Transition - The approved army process to transition new capabilities proven in the operational theaters of war into long-term capabilities for the Army.

- ❑ Soldier Enhancement Program - To evaluate, test and type classify existing commercially available, off-the-shelf items in three years or less. Not to fund lengthy development programs or to procure large numbers of major items for use.

- ❑ Rapid Fielding Initiative - Streamlined process for distributing equipment to deploying units and ensure that all Soldiers—regular Army, Guard, and Reserve— were outfitted with the most advanced individual and unit equipment available, providing significant improvements to Soldier combat effectiveness, survivability

- ❑ Joint Capabilities Integration and Development System – Chairman of Joint Chiefs of Staff and Army Requirement Oversight Council system for identifying, accessing and prioritizing joint military capabilities needs