

103-06A- AF45 - Base Input
Air Force - Brooks City Base - TX
BRAC COMMISSION - 2005
COFF: _____ DISPOSITION: Permanent

Welcome to Brooks City-Base Texas





311th HUMAN SYSTEMS WING

Birthplace, Home and Future of Aerospace Medicine



BRAC
In-brief:
Commissioner
James T. Hill

5 Jul 2005

U.S. AIR FORCE

Rod Vanderbeek
311th HSW/XP



OVERVIEW



Birthplace, Home and Future of Aerospace Medicine

- **Mission Briefing and Mission Statements – in Folder**
- **Brooks City-Base Agreement (Mr. Stephens)** *7/02*
AF leased back
- **“Moving Pieces” – JCSWG Medical**
 - **Staff and Organizations Affected**
 - **Mission Overviews**
 - **Destination for Movement**
 - **Facility Space**
 - **New MILCON or Refurbish Space**
- **Discussion**
- **Brooks City-Base Tour**



JOINT CENTER OF AEROSPACE MEDICINE EXCELLENCE



Birthplace, Home and Future of Aerospace Medicine

BRAC JCSWG--Medical

- **Medical Objectives:** Foster and Deliver RD&A of unique military medical and dental technology and techniques
- **Focus Areas:** Enhance jointness; Identify and maximize synergies from co-location or consolidation
- **Intent:** Create the Joint Center of Aerospace Medicine Excellence at WPAFB



JOINT CENTER OF AEROSPACE MEDICINE EXCELLENCE



Birthplace, Home and Future of Aerospace Medicine

CO-LOCATED ELEMENTS INSURE THE FOLLOWING SYNERGISTIC RELATIONSHIPS:

- **Clinical Insight brought into Training and Research**
- **Staff Integrated / Participating in all Three Domains:**
 - Clinical and Consultative
 - Teaching
 - Research
- **Research remains focused on Operational and Clinical Issues**
- **Promotes translational research that fosters rapid application of research findings in both operational and clinical settings**



311th Human Systems Wing



Birthplace, Home and Future of Aerospace Medicine

- **Mission: Enhance and Sustain Human Performance – for Dominant Air and Space Power**
- **Vision: Every Airman a Force Multiplier**

(Human) (Technology + CONOPS) = Capability

Human is the key enabler, in occupied and unoccupied systems. We enhance the performance of the air expeditionary warrior through: aerospace medicine knowledge, technology, and full integration with Air Force systems, unleashing human capability to maximize air and space power.



311th Human Systems Wing



Birthplace, Home and Future of Aerospace Medicine

- **Current Strategies:**
 - **Identify and Develop Advanced Surveillance and Detection Capabilities (force health protection)**
 - **Fully Implement Human Systems Integration (weapon-systems effectiveness, survivability, and reduced life-cycle costs)**
 - **Partner to Develop and Field Next-generation aircrew equipment (enhance performance)**
 - **Deliver expeditionary medical readiness (support human in global operations)**
 - **Collaborate and Partner (for success)**



“Brooks Moving Pieces”



Birthplace, Home and Future of Aerospace Medicine

No Mission Deletions – Movement Only

Wright-Patterson

- USAFSAM (FY08)
- AFIOH (FY07)
- Wing Staff (FY08)
- Human Systems Group (FY07)
- AFRL/HE (FY09)
- Navy Health Research (FY08)
- * Holloman Physiology (FY09)
- * Navy’s NAMRL, Pensacola

Aberdeen (FY08)

- Human Systems Group
ChemBio RD&A

Lackland (FY08)

- AFMSA / AFELM
- AFCEE
- 68 IOS
- 710 IOP Flight

Randolph (FY08)

- Air Force Audit Agency
- Recruiting Det

Ft Sam Houston (FY09)

- Army Medical Research Det



WPAFB Facilities & MILCON



Birthplace, Home and Future of Aerospace Medicine

WPAFB MILCON summary (FY07 & FY08):

- 690,000 sq ft / \$198M
- USAFSAM 165,650
(+15,000 refurb)
- AFIOH 145,000
- SPO 64,420
- AFRL 260,498
- Navy 20,358
- Subtotal 670,926 sq ft
- BOS (dining, library,
fitness) 22,714

Existing Mission Space:

- USAFSAM 323,648
- AFIOH 198,094
- SPO 144,650
- AFRL 325,441
 - Includes Navy NHRC 24,768
- Subtotal 991,833 sq ft
- Army USAMRD 27,602
- AFA 17,773

HSG Aberdeen: 14,080 sq ft. AFA Randolph 15,000 USAMRD Ft Sam Houston 25,700



Equipment / Special Rqmnts



Birthplace, Home and Future of Aerospace Medicine

- **Many:**
 - **Biosafety, radiological assessment, and clinical labs**
 - **Advanced diagnostics (ophthalmology, biotech, HAZWOPER)**
 - **Teaching auditoriums**
 - **Field sites (SERE, Mishap, EMEDS, Readiness)**
 - **Aircraft Mockups for AE/FN/CCATT**
 - **Training Pool**
 - **Altitude Chambers (hypo- and hyper-)**
 - **Centrifuge**
 - **Apprentice student dormitory**
 - **Additional bed-nights for TDY students**
 - **Student transportation**
 - **Warehouses**
 - **ACGME Residency Accreditation**
 - **Faculty Appointments / Lecturers**
 - **Flying status for RPI-5**
 - **Aeromedical Library**
 - **.....**



Birthplace, Home and Future of Aerospace Medicine

QUESTIONS?

DISCUSSION

CITY-BASE TOUR

USAFSAM

Organization	Staff				Contractors	Total	Destination	Space	Space Projected Space at Destination	Type of Space	Complement Functions at Destination Location?
	Officer	Enlisted	Civilian	Subtotal							
US Air Force School of Aerospace Medicine (USAFSAM) -- FY08	Certified										
								272,907			
								+ 43,146			
								Dorm = 316,053			
GME Students	108	141	61	310		310					
	37			37		37					
Total	145	141	61	347		347					
	COBRA										
GME Students	108	140	61	309	53	362	WPAFB FY08		165,650	New	Yes (AFRL/HE)
				0					15,000	Refurb	
Total				309							
	Current UMD										
GME Students	91	148	67	306	53	359		318,960			
	37			37	0	37		47,300 fuge			
Total	128	148	67	343	53	396		42,000 chambers			
								26,686 library			
Aerospace Medicine Education and Training -- 7000/yr: FS, FN, PHO, BEE, AP -- Trauma, Critical Air Transport, and Readiness Training -- Post-Graduate medical residency in aerospace medicine Aeromedical Consultation, Screening, and Assessments International Programs -- Education & Training Defense Institute -- International Health Specialists -- Advanced Aerospace Medicine Course											

AFRL

Organization	Staff				Contractors	Total	Destination	Space	Space Projected Space at Destination	Type of Space	Complement Functions at Destination Location?
	Officer	Enlisted	Civilian	Subtotal							
Air Force Research Lab (AFRL) -- FY09	Certified				23-199	200-376		340,902			
	51	38	88	177							
	COBRA				?	97	"Base X" WPAFB FY09	260,498	New	YES, current AFRL/HE complex	
	50	34	97	181							
	eliminate -33	-10	-41	-84							
Move WPAFB 17	24	56	97								
Current UMD				23-207	209-393		325,441				
53	37	96	186								
								47,300 fuge			
								42,000 chambers			
								26,686 library			
Scientific Research -- Directed Energy Bioeffects* -- Laser Eye Safety -- Mission Rehearsal, Artificial Intelligence, Virtual Reality training systems/simulators -- Aircrew Protection and Performance *Tejeda Bioeffects Lab -- Project Reliance 1993 Co-location at Brooks -- Non-ionizing biological effects research programs -- USA laser program from Letterman, Presidio -- USA microwave program from Walter Reed -- USN laser and microwave programs from Pensacola											

Wing, NHRC, USAMRD, Other

Organization	Staff					Space			Complement Functions at Destination Location?		
	Officer	Enlisted	Civilian	Subtotal	Contractors	Total	Destination	Space		Projected Space at Destination	Type of Space
Human Systems Wing: Certified	48	32	154	234							
Eliminations	28	32	154	214							
COBRA FY08	20	0	0	20	8	28	WPAFB	5400			Yes: RD&A
Navy Det --NHRC: Certified	3	3	7	13	7	20					
(Naval Health Research Center) COBRA	3	0	12	15							
[directed energy bioeffects research]											
efficiencies			-2	-2							
COBRA FY08	3	0	10	13	?	13	WPAFB	24,758	20,358	New	Yes: AFRL/HE
Army Det--USAMRD: Certified	2	9	15	26							
(Med Research Det) FY09 COBRA	2	8	13	23		23	Ft Sam Hous	27,602	25,700	New	
[medical triage & treatment strategies for laser retinal injury; laser hazards analysis; laser-bioeffects database]											
AF Audit Agency (FY08)	0	0	73	73		73	Randolph	17,773	15,000	Rehab	N/A
Recruiting Agency (FY08)		1	1	2		2	Randolph				





311th Human Systems Wing
Commander's Intent
Every Airman a Force Multiplier
(Human) (Technology + CONOPS) = Capability

Our Mission: Enhance and sustain human performance for dominant air and space power

The 311th Human Systems Wing is the birthplace, home, and future of aerospace medicine. Because the human is the “key” enabler -- even in unoccupied systems -- we enhance the performance of the air expeditionary warrior through aerospace medicine knowledge, technology, and full integration with Air Force systems, unleashing human capability to maximize air and space power.

The Opportunity

- Humans are indispensable, key enablers that assure effective air and space power
- Advances in medicine, materials, knowledge, and technology present unprecedented opportunities to enhance human performance to support the Expeditionary Air Force

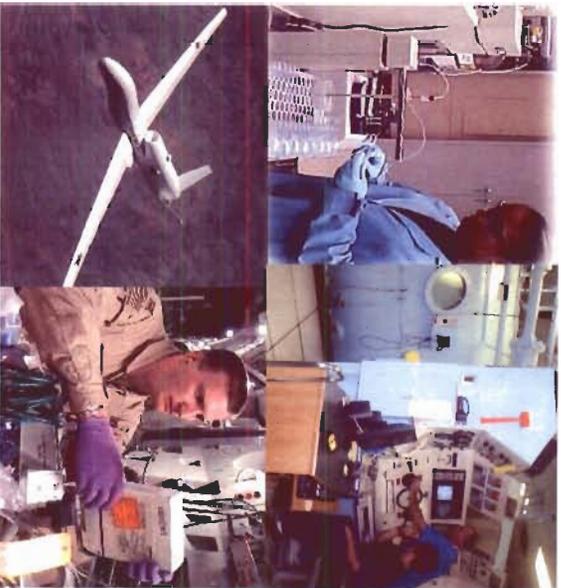
The Environment

- Warrior Airmen face increased operations tempo, extended missions, information saturation, and asymmetric threats including health risks from naturally occurring and man-made chemical, biological, and radiological exposures
- Advanced command and control, predictive battlespace awareness, and sensor-to-shooter time under ten minutes with integrated intelligence, surveillance, and reconnaissance require advanced decision support technologies
- Demands from modern weapon systems increase the challenge to integrate systems to support human cognitive and physical abilities; integration failures seriously threaten performance and place mission effectiveness at risk



The Strategy

- Focus our resources and leverage our combined expertise to:
- Identify and develop advanced surveillance and detection capabilities to provide force health protection and medical intelligence for operational decisions
 - Fully implement HSI to influence weapon systems design, amplify weapon system effectiveness, enhance system survivability, and reduce life-cycle costs
 - Partner to develop and field next-generation aircrew equipment to enhance performance
 - Deliver expeditionary medical readiness and engage the international medical community to better support the human in global operations
 - Provide programming, planning, and acquisition expertise to assure a supportable roadmap for AFMS modernization
 - Collaborate and partner with other services, agencies, allies, academia, and industry



We will advance knowledge, technologies, and techniques to deliver unconstrained human capability in all threat environments



311th Human Systems Wing

Birthplace, Home and Future of Aerospace Medicine



***Every Airman a
Force Multiplier***

***Brig Gen Tom Travis
Commander***

U.S. AIR FORCE

23 Feb 2005



Who We Are

Birthplace, Home and Future of Aerospace Medicine



AFMC Mission: Deliver war-winning. . . technology, acquisition support, sustainment. . . expeditionary capabilities to the warfighter



ASC Mission: Develops, acquires, sustains, and modernizes advanced aerospace capabilities and systems for major programs and Foreign Military Sales, including integrating human systems and installation support.



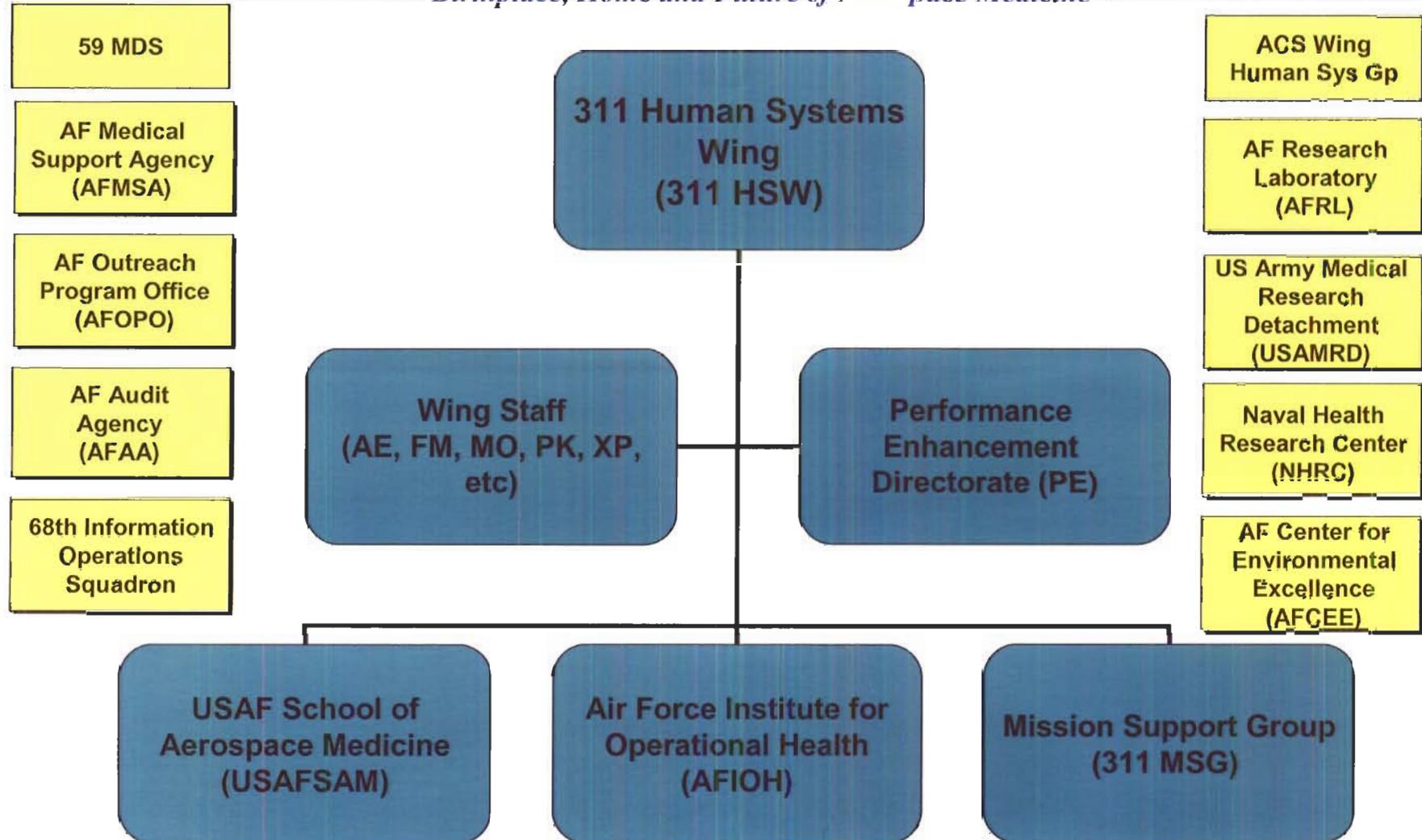
HSW Mission: Enhance and sustain human performance for dominant air and space power.



Organization Structure



Birthplace, Home and Future of Aerospace Medicine





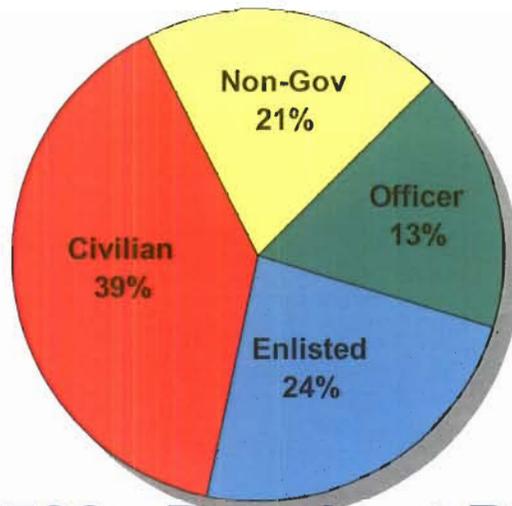
Our People...



Birthplace, Home and Future of Aerospace Medicine

Senior, Educated Workforce

- Medical Personnel
- Scientific & Engineering Personnel
- Skilled Technicians
- 1000+ Advanced Degrees
- 200 Doctorate Level



3700+ People at Brooks

San Antonio



\$490 million economic impact on the San Antonio community



Our Products

Birthplace, Home and Future of Aerospace Medicine

AFIOH USAFSAM PE MSG PARTNERS

**Force Health
Protection &
Prevention**



**311th HUMAN SYSTEMS WING
MISSION**

**ENHANCE AND SUSTAIN HUMAN PERFORMANCE
FOR DOMINANT AIR AND SPACE POWER**



**Education &
Training**



**Human
Performance
Sustainment and
Enhancement**

**Direct Mission
Support**



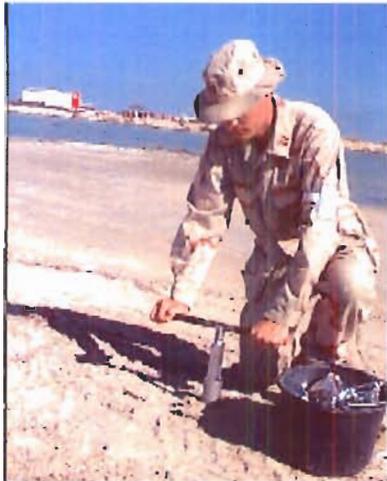


311 HSW Products

Birthplace, Home and Future of Aerospace Medicine

Force Health Protection

- Global health surveillance
- Public health and disease prevention
- CBRN detection & protection
- Aircrew protection
- Aerospace clinical research
- Reach-back environmental analysis





311 HSW Products

Birthplace, Home and Future of Aerospace Medicine

Direct Mission Support

- Wartime deployment
- Emergency response
- Field consultation
- Mishap investigation





311 HSW Products



Birthplace, Home and Future of Aerospace Medicine

Education and Training

- **All Team Aerospace training (primary & advanced)**
 - Flight Nurse, Physiologist, Public Health, Physicians
- **All advanced operational medicine training**
 - Expeditionary medical support
 - Critical care in-the-air
 - Trauma care
- **Specialized training**
 - Human Systems Integration
 - Pathogen identification
- **International training**
 - In-residence and exported





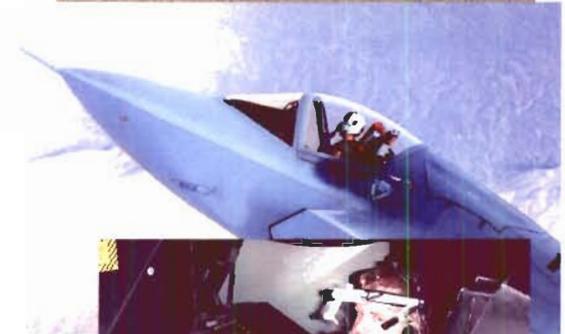
311 HSW Products

Birthplace, Home and Future of Aerospace Medicine



Human Performance Sustainment and Enhancement

- New PE directorate supports AFMC programs and product centers
- Influence weapon systems design & effectiveness; e.g.:
 - JSF – Pilot Vehicle Interface & Flight Equipment
 - F/A-22 – Aeromedical Working Group lead role
 - J-UCAS (UCAV) – Selection, training, and human-machine Interface
 - CAOC – Facilitate data to decision making
- HSI training offered AF-wide





311 HSW Commander's Intent



Birthplace, Home and Future of Aerospace Medicine



Every Airman a Force Multiplier

(Human) (Technology + CONOPS) = Capability

**Our Mission: Enhance and sustain human performance
for dominant air and space power**



311 HSW Commander's Intent



Birthplace, Home and Future of Aerospace Medicine

The Strategy

- Identify and develop advanced surveillance and detection capabilities to provide force health protection and medical intelligence for operational decisions
- Fully implement HSI to influence weapon system design, effectiveness, enhance system survivability, and reduce life-cycle cost
- Partner to develop and field next-generation aircrew equipment to enhance performance
- Deliver expeditionary medical readiness and support the human in global operations
- Provide programming, planning, and acquisition expertise to support AFMS modernization
- Collaborate and partner with other services, agencies, allies, academia, and industry





Birthplace, Home and Future of Aerospace Medicine





Brooks City-Base

Every Airman a Force Multiplier



Mission Statements

30 June 2005

U.S. AIR FORCE



U.S. Air Force School of Aerospace Medicine



Every Airman a Force Multiplier

- **International Aerospace Medical Learning/ Consultation/Aircrew Assessment**
- **Trains 7,000 Officers & Enlisted Students/Year**
 - **Flight surgeons/flight nurses/public health, bioenvironmental engineers, aerospace physiologists**
- **Operational Team Training**
 - **Expeditionary Medical Support**
 - **Center for Sustainment of Trauma & Readiness Skills**
 - **Critical Care Air Transport Team**
- **International Health Specialist Program**
- **Defense Institute for Medical Operations**



Air Force Institute for Operational Health



Every Airman a Force Multiplier

- **Promote Global Health and Protection**
- **Solutions to Operational Health Problems**
 - **Environmental/health surveillance**
 - **Risk analysis**
 - **Consultation**
 - **Technological Innovations**
- **Enhances & Upgrades Effectiveness Warfighter**
- **Numerous Partnerships**
 - **Academic**
 - **Commercial**
 - **Government**



311th Mission Support Group



Every Airman a Force Multiplier

- **Base Operating Support Brooks City-Base**
 - **Communications**
 - **Logistics**
 - **Services**
 - **Plans/Readiness**
 - **Military Personnel Management**



Performance Enhancement Directorate



Every Airman a Force Multiplier

- **Human Integration into New Weapon Systems**
 - Manned
 - Unmanned
- **Ensures System Effectiveness/Suitability/Safety**
- **Reduce Total Ownership Costs**



Human Effectiveness Directorate of Air Force Research Laboratory

Every Airman a Force Multiplier



- **Sponsors & Conducts Research Scientific Fields**
 - Directed energy bioeffects
 - Laser eye safety
 - Artificial intelligence
 - Virtual reality training systems/simulators
 - Mission rehearsal
 - Air crew protection/performance
 - Crew systems technology



Human Systems Group



Every Airman a Force Multiplier

- **Maximizes Combat Power & Survivability**
 - Acquisition/sustainment life support
 - Nuclear-biological-chemical
 - Aeromedical equipment
 - Medical information systems
- **Provides Mishap Investigation Services**
 - Develop safer systems
 - Support the POW/MIA identification efforts and special veteran health studies.
- **\$1.7 Billion Portfolio, 450 On-site Personnel, 2,000 Person Industry Team**



Naval Health Research Center Detachment Directed Energy Bioeffects Laboratory



Every Airman a Force Multiplier

- **Conducts Directed Energy Bioeffects Research**
- **Optimize Navy & Marine Corp Performance**
- **Enhance Warfighter Protection**



US Army Medical Research Detachment



Every Airman a Force Multiplier

- **Protect and Sustain the Soldier**
- **Develop medical triage and treatment strategies for laser-induced retinal injury**
- **Determine the operation health and performance hazards of laser radiation emitted by military systems**
- **Establish the laser-bioeffects data base to update exposure guidelines for laser exposures**



FACT SHEET

UNITED STATES AIR FORCE

Office of Public Affairs, 311th Human Systems Wing, 2510 Kennedy Circle

Brooks City-Base, TX 78235-5115

Phone (210) 536-3234 Fax (210) 536-3235



Brooks City-Base, Texas

The **311th Human Systems Wing, Brooks City-Base, Texas**, is comprised of the following units: the **U.S. Air Force School of Aerospace Medicine**, the **Air Force Institute for Operational Health** and the **311th Mission Support Group**. Other partners, located at Brooks but not under the 311th HSW, are the **Human Effectiveness Directorate (Armstrong Research Site) of the Air Force Research Laboratory**, the **Human Systems Group**, **Air Force Medical Support Agency**, **Air Force Outreach Program Office**, **Air Force Audit Agency**, **Air Force Center for Environmental Excellence** and the **68th Information Operations Squadron**. One-fourth of the Brooks community holds advanced degrees. The special relations among these units

result in a blending of scientific, medical, environmental, acquisition and instructional expertise.

311th Human Systems Wing

The 311th Human Systems Wing is assigned to the Aeronautical Systems Center, Wright-Patterson Air Force Base, Ohio. The Wing's mission is to "Enhance and sustain human performance for dominant air and space power." The 311th Human Systems Wing is the birthplace, home and future of aerospace medicine. Because the human is the "key" enabler -- even in unoccupied systems -- we enhance the performance of the air expeditionary warrior through aerospace medicine knowledge, technology, and full integration with Air Force systems, unleashing human capability to maximize air and space power.

U.S. Air Force School of Aerospace Medicine

The U.S. Air Force School of Aerospace Medicine (USAFSAM) is noted internationally as a premier center of aerospace medical learning, consultation, and aircrew health assessment. Approximately 7,000 students per year are trained by the school. This training is conducted for all of the entry-level officer and enlisted Team Aerospace specialties. Specialized training is provided for flight surgeons, flight nurses, bioenvironmental engineers, aerospace physiologists, public health officers and enlisted professionals. Sister service and international aeromedical specialists receive basic and advanced training in many areas of study, both at USAFSAM, and at remote sites worldwide. USAFSAM conducts Air Force Medical Service multi-specialty operational medical team training for the Expeditionary Medical Support (EMEDS), Center for Sustainment of Trauma & Readiness Skills (C-STARS), and Critical Care Air Transport Team (CCATT) programs and the International Health Specialist program, which trains and identifies Air Force medics for service in specific geographic areas. It also administers the Defense Institute for Medical Operations (DIMO), which serves as a focal point for Air Force and Navy exportable and importable medical and disaster-related courses. The ultimate goal of DIMO is to provide training that improves host nations' and U.S. abilities to manage their own threats/crises and to respond as coalition partners in regional crises.

Air Force Institute for Operational Health

The mission of the Air Force Institute for Operational Health (AFIOH) is to promote global health and protecting Air Force personnel and communities. By developing and implementing creative solutions to operational health problems using tools such as environmental and health surveillance, risk analysis, consultation and technological innovations, AFIOH enhances and upgrades the readiness and effectiveness of the warfighter. AFIOH maximizes these efforts through partnerships with numerous academic, commercial and governmental agencies.

311th Mission Support Group

The 311th Mission Support Group operates, maintains, and provides base operating support to the 311th Human Systems Wing, Armstrong Research Site of the Air Force Research Laboratory, Air Force Center for Environmental Excellence, 68th Information Operations Squadron and other associate and tenant units. Support includes communications, logistics, services, plans/readiness and military personnel management.

The Performance Enhancement Directorate

The Performance Enhancement Directorate, 311 HSW/PE, ensures the human is integrated in planning new weapons systems, manned and unmanned. This integration assures that emerging systems are more effective, suitable, and safe for human operators, maintainers and trainers; and inevitably reduces total ownership costs.

Human Effectiveness Directorate (Armstrong Research Site) of the Air Force Research Laboratory

A major partner at Brooks, the Human Effectiveness Directorate sponsors and conducts research and development in numerous scientific fields including directed energy bioeffects, laser eye safety, artificial intelligence/virtual reality training systems/simulators, mission rehearsal, air crew protection and performance, life support and crew systems technology.

Human Systems Group

The Human Systems Group is a unit of the Agile Combat Support Systems Wing at Wright-Patterson AFB. The Group maximizes the combat power and survivability of the warfighter through acquisition and sustainment of life support, nuclear-biological-chemical, aeromedical equipment and medical information systems. The group's mission supports every airman every day. It provides uniforms from their first day of duty and equipment to increase warfighter performance while insuring their protection and safety throughout their career. The group provides mishap investigation services to help develop safer systems and supports the POW/MIA identification efforts and special veteran health studies. The group executes a \$1.7 billion portfolio and consists of 450 on-site personnel and a 2,000-person industry team.

US Army Medical Research Detachment

The mission of the USAMRD-WRAIR is to determine the medical hazards of laser and non-ionizing radiation inherent to military systems in order to protect and sustain the health of the soldier in both training and operational environments. The objectives of this mission are: (a) to develop medical triage, diagnosis and treatment for battlefield laser eye injuries, (b) to recommend permissible exposure limits for training and operational environments, (c) to assess and archive laser eye injuries in an accessible data base, (d) to characterize and model the effects of laser radiation on vision and performance pertinent to military scenarios, (e) to recommend specifications for laser protective eyewear for soldiers, and (f) to evaluate the biomedical implications of ocular protective devices. Most of this work is programmed and accomplished under US Army Technical Objective (ATO IV ME.2002.01) entitled Medical Countermeasures for Laser Eye Injury

Air Force Medical Support Agency

The Air Force Medical Support Agency (AFMSA) is a field operating agency at Brooks with headquarters at Bolling AFB. The AFMSA commander and Director, Medical Programs and Resources, Office of the Surgeon General, is dual hatted and resides at Bolling Air Force Base, D.C. A deputy commander oversees AFMSA personnel and resides at Brooks, and reports to the commander. AFMSA's mission is to improve global performance, capability, and cost effectiveness of the Medical Service in supporting combat forces and maintaining the health of beneficiaries. It is the Air Force Surgeon General's primary focal point for policy development, strategies, plans, consultant services, and requirements dealing with facilities, supplies, equipment, acquisition, information systems and resources.

Air Force Outreach Program Office

The Air Force Outreach Program Office (AFPOPO) was established by the Director, Office of Small and Disadvantaged Business Utilization (SAF/SB), to develop proactive and innovative methods of outreach to strengthen the Economic Equality Agenda and enhance utilization of small business, woman-owned business, historically underutilized business and minority institutions in Air Force programs. The Air Force Outreach Program Office is a central tool in developing a better understanding of the benefits outreach can provide, in order to reverse the decrease of the utilization of small and disadvantaged businesses.

Air Force Audit Agency

The regional office of the Air Force Audit Agency provides all levels of Air Force management with independent, objective and quality audit services. These include: reviewing and promoting economy, effectiveness, and efficiency of operations; evaluating programs and activities and assisting management in achieving intended results; assessing and improving Air Force fiduciary stewardship and the accuracy of financial reporting.

Air Force Center for Environmental Excellence

The Air Force Center for Environmental Excellence is a field-operating agency of the Air Force Civil Engineer. The center provides Air Force leaders with the comprehensive expertise they need to protect, preserve, restore, develop and sustain our nation's environmental and installation resources. AFCEE also advances excellence in Air Force installations by formulating and executing sound design and construction management principles. AFCEE is the Air Force's premiere environmental service center, offering commanders a full-range of technical and professional services in the areas of environmental restoration, pollution prevention, natural and cultural resources conservation, design and construction management, and comprehensive planning.

68th Information Operations Squadron

The 68th Information Operations Squadron deploys combat-trained, mission-ready personnel worldwide to play a major role in identifying deficiencies in various Air Force telecommunications and computer security programs. Unit personnel also deploy to provide on-site communications disruption training to Air Force tactical communications. The 68th IOS is a subordinate unit of the 67th Information Operations Group and the 67th Information Operations Wing located at Lackland Air Force Base, Texas.

(Current as of June 2005)

Visit our home page at www.brooks.af.mil.



FACT SHEET

UNITED STATES AIR FORCE

Office of Public Affairs, 311th Human Systems Wing, 2510 Kennedy Circle

Brooks City-Base, TX 78235-5115

Phone (210) 536-3234 Fax (210) 536-3235

Tejeda Bioeffects Lab

Official facility name: Frank M. Tejeda Directed Energy Bioeffects Laboratory

Building No: 1162

Architects: Page, Southland, Page of Austin, Texas

Building Contractor: J. T. Construction Inc. of San Antonio, Texas, a locally owned small business

Cost: \$6.5 million

Size: 55,000 square feet

Groundbreaking: August 1997

Dedication: April 1998

Tenants: Air Force Research Laboratory, Human Effectiveness Directorate, Directed Energy Bioeffects Division (includes Radiofrequency Radiation, Optical Radiation and Biomolecular Branches); the U.S. Army Medical Research Detachment; and the Naval Health Research Center Detachment.

Facility's major features: About 55,000 square feet designed for laser, radiofrequency radiation and biomolecular research. This includes 41 separate labs within the facility. Of these, 19 labs are designed for laser laboratory work, 10 labs designed for radiofrequency radiation research, eight labs designed for biomolecular research, two labs for biochemistry, and two tissue culture labs. There are also 16 animal servicing areas in this facility. This is also the first Brooks building to feature a re-circulating water system for energy efficiency in cooling lasers and RF transmitters. The building is specially designed with a slab on grade foundation that contains a separate concrete slab to minimize motion for equipment.

Scientific mission: The Frank M. Tejeda Directed Energy Bioeffects Laboratory is responsible for evaluating the biological effects of non-ionizing radiation to service personnel. The safety standards for laser and radio frequency radiation exposures accepted worldwide in government, industrial and medical communities result from work done at our research laboratory.

People: The group of about 200 tri-service scientists, engineers and technicians devoted to the study of the biological effects of non-ionizing radiation such as microwaves, lasers and radio frequency radiation were brought together at Brooks Air Force Base (now Brooks City-Base) under Project Reliance. This is a program, which seeks to collocate similar R&D activities of the services. It is part of the effort to save costs in the military's R&D community. Under Project Reliance, the Services' non-ionizing biological effects programs were collocated at Brooks Air Force Base beginning in 1993. The U.S. Army's laser program was located from Letterman Army Institute of Research at the Presidio of San Francisco, Calif., and the microwave program was relocated from the Walter Reed Army Institute of Research, Bethesda, Md. The U.S. Navy's laser and microwave programs were both relocated from the Naval Aerospace Medical Research Laboratory, Pensacola, Fla.

(Current as of July 2005)





BIOGRAPHY

UNITED STATES AIR FORCE

BRIGADIER GENERAL (DR.) THOMAS W. TRAVIS

Selected for reassignment as Commander, 89th Medical Group, Andrews Air Force Base, Md.

Brig. Gen. (Dr.) Thomas W. Travis is Commander, 311th Human Systems Wing, Brooks City-Base, Texas. The organization is the Air Force home of aerospace medicine. Recognizing that the human is key to air and space power, the wing focuses on human-centered science and technology development, human systems acquisition, and aerospace medicine education and training.

General Travis entered the Air Force in 1976 as a distinguished graduate of the ROTC program at Virginia Polytechnic Institute and State University. He was awarded his pilot wings in 1978 and served as an F-4 pilot and aircraft commander. The general completed his medical degree from the Uniformed Services University of the Health Sciences School of Medicine, where he was the top Air Force graduate, and in 1987 he became a flight surgeon. For more than three years, General Travis was Chief of Medical Operations for the Human Systems Program Office at Brooks. He later served as the Director of Operational Health Support and Chief of Aerospace Medicine Division for the Air Force Medical Operations Agency in Washington, D.C. Prior to his current assignment, the general was the Commander and Dean of the U.S. Air Force School of Aerospace Medicine at Brooks City-Base.



General Travis is board certified in aerospace medicine. A command pilot and chief flight surgeon, he has more than 1,800 flying hours and is one of the Air Force's few pilot-physicians. He has flown the F-4, F-15, F-16 as mission pilot and, most recently, the Royal Air Force Hawk as senior medical officer and test pilot.

EDUCATION

1976 Distinguished graduate, Bachelor of Science degree in biology, Virginia Polytechnic Institute and State University, Blacksburg

1980 Master of Science degree in physiology, Virginia Polytechnic Institute and State University

1986 Doctor of Medicine degree, Uniformed Services University of the Health Sciences School of Medicine, Bethesda, Md.

1991 Master of Science degree in public health, University of Texas Health Science Center, San Antonio, Texas

1996 Air War College, by correspondence

1999 Distinguished graduate, Master of Science degree in national resource strategy, Industrial College of the Armed Forces, Fort Lesley J. McNair, Washington, D.C.

2000 Medical Capstone, Walter Reed Army Medical Center, Washington, D.C.

2003 Federal Health Care Executive Course, Interagency Institute, George Washington University, Washington D.C.

ASSIGNMENTS

1. April 1977 – March 1978, student, undergraduate pilot training, Williams Air Force Base, Ariz

2. May 1978 – August 1978, student, fighter lead-in training, Holloman AFB, N.M.



BIOGRAPHY

UNITED STATES AIR FORCE

ERIC L. STEPHENS

Eric L. Stephens, a member of the Senior Executive Service, is Deputy Director, 311th Human Systems Wing, Air Force Materiel Command, Brooks City-Base, Texas. Mr. Stephens, with the commander, manages the Air Force human systems acquisition, aerospace medical education and training, and occupational and environmental health programs, as well as wing and base support functions. The wing has a work force of nearly 2,000 military and civilian employees and an annual budget of \$150 million. He also is responsible to the commander for the Brooks City-Base Project, a congressionally directed demonstration to enhance the productivity of the base while stimulating local economic growth through partnerships with the community.

Mr. Stephens is a 1970 distinguished graduate of the ROTC program at Southern Illinois University. From 1971 to 1975, he served on active duty as the base industrial engineer at Minot Air Force Base, N.D., and Chief of Operations and Maintenance for the Military Airlift Command at Bolling AFB, D.C. During his more than 25 years in the Air Force Reserve, he served primarily as a civil engineer staff officer at the Air Force Office of Scientific Research in Washington, D.C., retiring in 2001 as a colonel.



Mr. Stephens' civil service career began in 1975 as Chief of Construction Management at Bolling AFB, where he attained the position of Deputy Base Civil Engineer in 1977. He spent two years with the Army Corps of Engineers at Fort Belvoir, Va., and returned to the Air Force as the Deputy Base Civil Engineer at Hanscom AFB, Mass. Mr. Stephens later moved to Wright-Patterson AFB, Ohio, as the Deputy Director of Acquisition Environmental Management. After attending Defense Systems Management College in 1991, Mr. Stephens was assigned to Brooks AFB, Texas, to become the base's first Director of Environmental Management. Prior to his current position, Mr. Stephens was the Director, Air Force Institute for Operational Health, 311th Human Systems Wing.

EDUCATION

1970 Bachelor of Science degree in industrial technology, Southern Illinois University, Carbondale
1974 Squadron Officer School
1976 Master's degree in business management, Central Michigan University
1984 Air Command and Staff College
1987 Air War College
1992 Defense Systems Management College
1995 Federal Executive Institute

CAREER CHRONOLOGY

1. May 1975 - October 1977, Chief of Construction Management, Base Civil Engineering, Air Combat Command, Bolling AFB, D.C.
2. November 1977 - January 1981, Deputy Base Civil Engineer, Bolling AFB, D.C.
3. February 1981 - October 1982, OMB Program Manager, A-76 Contracting Out Program, Facility Engineer Support Agency, Army Corps of Engineers, Fort Belvoir, Va.



BIOGRAPHY



UNITED STATES AIR FORCE

Office of Public Affairs, 311th Human Systems Wing, 2510 Kennedy Circle
Brooks City-Base, TX 78235-5120
Phone (210) 536-3234 Fax (210) 536-3235

COLONEL LAURA ALVARADO

Colonel Laura Alvarado is Vice Commander, 311th Human Systems Wing, Brooks City-Base, Texas. She supports the commander in directing the Air Force's single special mission wing focused on the many facets of aerospace medicine. The wing develops and sustains human-centered products (more than 140 programs), conducts original research, educates and trains more than 5,000 students/year in the aerospace medicine disciplines, provides consultative services worldwide, and serves as the Environmental Safety and Occupational Health (ESOH) focus—all aimed at enhancing operational efficiency and combat power.

Prior to becoming the 311th HSW Vice Commander, Colonel Alvarado was the commander and dean of the U.S. Air Force School of Aerospace Medicine at Brooks City-Base.

Colonel Alvarado earned a Bachelor of Science in Nursing cum Laude from the University of the Incarnate Word in San Antonio and a Master of Science in Nursing from the University of Texas at Arlington. She holds advanced certification in Nursing Administration from the American Nurses Credentialing Center.



As the recipient of National Health Services Corps (USPHS) scholarship, Colonel Alvarado began her career in the uniformed services as a first lieutenant assigned to the Indian Health Service, Zuni Comprehensive Medical Center, Zuni, N.M., from 1978-1980. In September 1980, she made a lateral transfer to the Air Force and was assigned to Wilford Hall Medical Center, Lackland Air Force Base, Texas, where she managed the Nutritional Support Program for this 750-bed hospital. In addition to providing individualized patient care, she taught principles of intravenous and enteral nutrition therapy to nursing personnel and medical residents of all specialties.

In 1985 Col Alvarado was reassigned to the 401st Tactical Fighter Wing Hospital, Torrejon Air Base, Spain, where she served as nurse manager of the medical/surgical unit and level III emergency services. In 1988, she rotated to Robert L. Thompson Regional Hospital, Carswell AFB, Texas, as Officer in Charge, Emergency Department. Following an Air Force Institute of Technology assignment to complete an advanced degree, the colonel became the Operations Officer, Surgery Flight, 81st Medical Group, Keesler AFB, Miss., the first medical center to implement the Objective Medical Group structure.

Colonel Alvarado pursued an Education with Industry Fellowship in managed care at the George Washington University Health Plan, Bethesda, Maryland. After completing her fellowship in April 1996, she was named the Action Officer for the Division of Nursing, Office of the Air Force Surgeon General, Bolling AFB, D.C. In August 1996 she became the Chief Nurse Executive of the 11th Medical Group, Bolling AFB and later assumed command of the 11th Medical Support Squadron. In June 1999, Colonel Alvarado took command of the 17th Medical Group at Goodfellow AFB, Texas. In July 2002, the colonel became Chair of the Department of Aerospace Education and Training, U.S. Air Force School of Aerospace Medicine (USAFSAM), Brooks AFB, Texas, and then became Vice Commander of USAFSAM. In February 2003 she assumed command of USAFSAM, a first for a female/non-physician in the history of the school.



BIOGRAPHY



UNITED STATES AIR FORCE

Office of Public Affairs, 311th Human Systems Wing, 2510 Kennedy Circle

Brooks City-Base, TX 78235-5115

Phone (210) 536-3234 Fax (210) 536-3235

CHIEF MASTER SERGEANT REGINALD L. WILLIAMS

Chief Master Sergeant Reginald L. Williams is the Command Chief Master Sergeant to the commander, 311th Human Systems Wing, Brooks City-Base, Texas. He is the principal advisor to the commander on all enlisted issues. His responsibilities include keeping the commander apprised of all matters affecting the health, welfare and morale and effective utilization of all assigned enlisted personnel. Chief Williams promotes quality of life programs to improve dormitories, quarters, dining and recreational facilities. He manages selection boards for wing enlisted awards programs, evaluates decorations, and provides recommendations for promotions.

Chief Williams entered the Air Force under the delayed entry program. After completion of basic military training, he was assigned in February of 1982 for technical training at Sheppard AFB, Texas. He is a career Health Services Administration specialist and has been assigned to a variety of positions at the wing, major command and headquarters Air Force levels.

His assignment locations include Arkansas, Japan, Louisiana, Texas, Guam, Italy and Washington, D.C. His staff tours include assignments to Headquarters Air Education and Training Command, Headquarters Air Force Medical Operation Agency and Headquarters U.S. Air Forces Office of the Surgeon General.



EDUCATION

- 1984 Noncommissioned Officer Preparatory Course, Blytheville AFB, Arkansas
- 1986 Pacific Air Forces Noncommissioned Officer Leadership School, Kadena AB, Okinawa Japan
- 1993 Air Education & Training Command Noncommissioned Officer Academy, Keesler AFB, MS
- 1997 United States Air Force Senior Noncommissioned Officer Academy, Gunter AFB, Alabama
- 1998 Associate Degree in Health Care Management/Administration; Community College of the AF
- 2000 Bachelor of Science Degree in Business Administration; University of Phoenix

ASSIGNMENTS

1. March 1982 - March 1985, Chief Clerk, Personnel & Admin Services, Patient Affairs Clerk and A&D Clerk AF Hospital, Blytheville AFB, Arkansas
2. April 1985 - March 1989, Exec Asst. Chief Hospital Services, NCOIC Patient Affairs and Air Evacuation Clerk, 313th Medical Group, Kadena AB Japan
3. April 1989 - December 1989, Supt, Patient Administration, 2nd Medical Group, Barksdale AFB, LA
4. December 89 - July 92, NCOIC, Medical Squadron Section, 2nd Medical Group, Barksdale AFB, LA
5. August 1992 - February 1996, Deputy Air Force Surgeon General Enlisted Executive Assistant &

Draft Agenda
General James Hill
BRAC Commissioner
5 July 2005

Uniform: Military – Uniform of the Day
Civilian – Business Attire

TUESDAY, 5 JUL 05

DVs: General **JAMES T.** Hill, U.S. Army Retired

ADDITIONAL VISITORS:

Ms. **LESIA** Mandzia, BRAC Commission Senior Analyst

Mr. **MIKE** Flinn, BRAC Commission Senior Analyst

Note: Commissioner Hill will be picked up at San Antonio International Airport by Mr. Flinn and escorted to Brooks City-Base

- 1330** **ARRIVE** at the 311th Human System Wing (HSW) and proceed to the conference room for introductions and briefings
-Met by: Brigadier General **TOM** Travis, Commander, 311 HSW/CC
Mr. **ERIC** Stephens, 311 HSW/CD
- 1335** Welcome Remarks
-By: Gen Travis
- 1340-1440** Brooks Mission and BRAC Briefing followed by discussion
- Briefed by: Dr. **ROD** Vanderbeek, Director, Plans & Programs

Attendees:

Commissioner Hill

Ms. Mandzia

Mr. Flinn

Mr. **CLIFTON** Walker, Constituent Services Representative
Office of Congressman Henry Cuellar, District 28 of Texas

Brigadier General Travis

Mr. Stephens

Colonel **LAURA** Alvarado, Vice Commander, 311 HSW

Colonel **COURTNEY** Scott, Commander, USAF School of Aerospace Medicine

Colonel **JAMES** Neville, Commander, AF Institute for Operational Health

Colonel **LEX** Brown, Director, Performance Enhancement Dir

Mr. **MEL** Waldgeir, Deputy Director, 311th Mission Support Group

Dr. Vanderbeek

Ms. **SUSAN** Merchant, Deputy Director, Brooks Project Office

Captain **JASON** Sanchez, Comptroller

Col **STEPHEN** Smith, Director, Contracting

Major **BRIAN** Roo, Judge Advocate Office

Ms. **PAT** Tiner, Acquisition Center of Excellence

Mr **LARRY** Farlow, Director, Public Affairs

Mr. **BRITT** Covington, Deputy Director, Human Systems Group

Colonel **SEAN** Scully, Site Commander, Detachment 5,

AF Research Laboratory Human Effectiveness Directorate

CDR **VINCENT** Deinnocentiis, NHRC/DET

Mr. **BRUCE** Stuck, Detachment Director, USAMRD-WAIR

Lieutenant Colonel **TOM** Duquette, Commander, 59th Medical Squadron

