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JOHN VINCENT BARSON, DO, MPH, FAsMA  
Colonel (Retired), U.S. Army Medical Corps

CITIZENSHIP: United States of America

CIVILIAN EDUCATION:

East Lansing High School  
East Lansing, Michigan 48823  
High School Diploma - June 1971

Michigan State University  
East Lansing, Michigan 48824  
Bachelors of Science in Psychology - June 1976

Oklahoma State University  
College of Osteopathic Medicine & Surgery  
Tulsa, Oklahoma  
Doctor of Osteopathy – June 1979

The Johns Hopkins University  
School of Hygiene and Public Health  
Baltimore, Maryland  
Masters of Public Health - May 1982

#### **EMPLOYMENT HISTORY/MILITARY DUTY/EVENTS:**

**January 2019 – Present**, Aerospace Medicine Consultant

**December 2010 – January 2019**, Deputy Regional Flight Surgeon with the Federal Aviation Administration Southern Regional Office Aerospace Medicine Division, ASO-300, 1701 Columbia Ave., College Park, GA 30337.

Supervisor: Susan E. Northrup, MD, MPH

As Deputy Regional Flight Surgeon I am responsible for the Airman Medical Certification Program covering the region's 169,000 airman, the Aviation Medical Examiner (AME) Designation and Surveillance Program for over 600 AMEs, the FAA Southern Region Internal Drug Testing Program, and oversight of the Occupational Health Program provides review of physical examinations for hiring and retention, medical clearances for medical conditions and medications that affect the region's 4,200 Air Traffic Control Specialists' ability to perform aviation safety related duties, workplace hazard evaluations, the medical review of the Worker's Compensation program, and substance abuse evaluation review and Employee Assistance Program Substance Abuse Treatment for the eight states and Caribbean area of the FAA Southern Region. Medical Review Officer (MRO) for the FAA Internal Drug Testing Program. Supervise a staff of twenty-three medical and administrative personnel.

## Recent Projects:

1. Subject Matter Expert for the Next Generation Airman and Air Traffic Control Specialist (ATCS) Medical Certification System. This system will perform automated review of airman and ATCS medical certification examinations, coding of medical conditions for research and policy development, tracking of and issuing special issuance/consideration medical waivers, and medical history information to airman/ATCS and Aviation Medical Examiners.
2. Planning, coordination, procedure development, and implementation of a new Virtual Hiring Program for mass hiring of Air Traffic Control Specialists to replace retiring workforce using the Aviation Medical Examiner System and a virtual team of Flight Surgeons and analysts to perform examinations and review for medically qualifying applicants for employment as Air Traffic Control Specialists.
3. Developed strategy that significantly reduce the number of Office of Workers Compensation Programs (OWCP) claims for traumatic stress due to operational incidents saving the FAA Southern Region Air Traffic Organization millions of dollars a year in OWCP payments.

**November 2007 – December 2010**, Flight Surgeon with the Federal Aviation Administration Southern Regional Office Aerospace Medicine Division, ASO-300, 1701 Columbia Ave., College Park, GA 30337.

Supervisor: Susan E. Northrup, MD, MPH

Flight Surgeon responsible for the Occupational Health Program for the Air Traffic Control Specialists (ATCS) in the eight states and Caribbean area of the FAA Southern Region. This consists of approximately 4,200 ATCS (one-third of the 14,200 FAA ATCS) at 62 facilities. The Occupational Health Program provides review of physical examinations for hiring and retention, medical clearances for medical conditions and medications that affect the Air Traffic Control Specialist's ability to perform aviation safety related duties, workplace hazard evaluations, Worker's Compensation, and substance abuse evaluation review and Employee Assistance Program Substance Abuse Treatment Oversight. The Flight Surgeon also is a member of the Crisis Management Team for preparing for and managing crisis's that affect the FAA Southern Region portion of the National Airspace System (NAS) to include nature disasters such as hurricanes and earthquakes; epidemics; terrorist events; etc. The Flight Surgeon is also responsible for 169,000 (24% of the approximately 690,000 airman (pilots)) who have FAA Medical Certificates and reside in the FAA Southern Region and provide support to the National Transportation Safety Board (NTSB) for aircraft accidents in the FAA Southern Region. Supervise a staff of eight medical and administrative personnel.

## Recent Projects:

1. Planning, coordination, procedure development, and implementation of program for mass hiring of Air Traffic Control Specialists to replace retiring workforce.
2. Management of closure of two medical field offices and consolidation of records and activities at the Regional Office.

**April 2003 – November 2007**, Medical Officer GS-0602-14 with the Centers for Disease Control and Prevention, National Center for Preparedness, Detection, and Control of Infectious Disease and Prevention, Division of Bioterrorism Preparedness and Response, 1600 Clifton Road, NE, Mail Stop C-18, Atlanta, GA 30333.

Supervisors: Captain Lisa Rotz, MD, USPHS and Pam Diaz, MD

As a Medical Officer in the Division of Bioterrorism, Preparedness, and Response (DBPR) I provided medical and epidemiological expertise in the formulation of policy and procedures for protecting the nation's public health against smallpox and other bioterrorism agents; and developed response plans and programs to detect and prevent bioterrorism attacks. I was responsible for the DBPR management of

Smallpox vaccine and pharmaceutical Investigational New Drug (IND) protocols used to provide prophylaxis to various populations in the event of smallpox or other Orthopox release and for treating potential side effects of vaccinia vaccination. As a Medical Officer in the Bioterrorism Preparedness and Response Program, I participated in the response to the Severe Acute Respiratory Syndrome (SARS) Outbreak and the Monkeypox Outbreak. I was a member of the CDC Aero-Medical Evacuation Team (AMET) who is developing Bio-Containment System capability for evacuating by aircraft a highly infectious patient or highly infectious lab specimens or animals from any where in the world. This device was later constructed in a joint CDC/U.S. Army program and used to transport Ebola patients to treatment facilities in the United States. This project involved developing the statement of work (SOW) for both the aircraft, the medical capability to transport patients, and the medical crew qualifications. A first step in this program was the acquisition of a leased aircraft for CDC for which I was a member of the technical evaluation committee for the lease contract. Additionally, I was involved in development of a CDC Public Health Emergencies Manual for nation-wide distribution and in developing evaluation criteria for the national, state, county, and local health department's ability to respond to bioterrorism attacks. I also provide reviews and assistance in the development of Emergency Response Plans for various organizations to include the National Security Agency, the National Capital Region, New York City, various state and local health departments, and the National Response Plan. I was a member of the Department of Homeland Security Exercise & Evaluation Program Working Group developing evaluation criteria for States' Bioterrorism Response Plans. I was a member of the team that developed the Non-US Licensed Influenza Vaccine Investigational New Drug (IND) Protocol and Administration Plan for the 2004-2005 Influenza Season to alleviate the Influenza Vaccine Shortage. I have also provided assistance in the updating of the FBI/USDOJ/USASBSS/CDC Criminal and Epidemiological Investigation Handbook and was a member of the CDC Public Health Emergency Response Guide Working Group that developed the CDC Public Health Emergency Response Guide. I was on the coordinating committee and a presenter/subject matter expert for the Airport Preparedness Workshop, June 13-14, 2005, San Ramon, CA. This workshop was cosponsored by the U.S. Department of Homeland Security, the U.S. Environmental Protection Agency, and the Centers for Disease Control and Prevention addressing the subject of "Preparing for Bio-Contamination of and Airport Facility." I also deployed to Arkansas for the Hurricane Katrina Response working on Evacuee Health Assessments, Shelter Surveillance, and Hospital Visits and Admissions. Most recently, I did the coordination and response for identifying, evaluating, treatment decisions, and logistics coordination for the response to the first case of Eczema Vaccinatum in the United States in over 40 years in a child in Chicago, IL.

Projects included:

1. Update of the CDC Smallpox Response Plan and Guidelines.
2. Development of Emergency Use Authorization (EUA) Documents and Procedures for current Strategic National Stockpile (SNS) Medical Countermeasures.
3. Development of disease specific annexes as part of the National Center for Preparedness, Detection, and Control of Infectious Disease and Prevention Concept of Operations (CONOPS) for an Infectious Disease Outbreak Response document.
4. DBPR representative on Anthrax Vaccine Absorbed (AVA) Project Coordination Team with the Office of Research and Development Coordination (ORDC) and the Strategic National Stockpile (SNS).
5. I served on the Transportation Research Board of the National Academies Airport Cooperative Research Program Project Panel developing the project statement for the Federal Aviation Administration (FAA) Funded Study on "Airport Strategies to Handle a Chemical/Biological Attack on an Airplane".

6. Aeromedical Subject Matter Expert (SME) for the Joint CDC-DOD Air Evacuation Transport System for Highly Infectious Patients.
7. Member of the working group developing Anthrax Vaccination Program for the CDC National Laboratory Response Network (LRN).
8. Member of the working group developing the Orthopoxvirus Antiviral Utilization Policy for the Department of Health and Human Services.

**June 2001 – April 2003**, Independent Physician-Consultant for Occupational and Environmental Medicine, Inc. under contract to the Federal Occupational Health Law Enforcement Medical Programs (FOH LEMP), Atlanta Federal Center, Suite 3R10, 100 Alabama Street, Atlanta, GA 30303.

Supervisor: Captain (Ret) Richard Miller, MD, USPHS

The Federal Occupational Health Law Enforcement Medical Programs provided occupational medicine consulting and medical review for 35 Federal Law Enforcement Agencies to include the U.S. Secret Service, Drug Enforcement Agency, U.S. Customs Service, Environmental Protection Agency, Internal Revenue Service, Judicial Security Division, U.S. Marshals, etc. Occupational medicine consulting includes job performance task analysis, development of recruiting and retention criteria and medical standards, health hazard risk analysis, assistance with agency replies to Congressional Inquires, development of safety criteria and standards, fitness for duty evaluation reviews, development immunization requirements for domestic and international duty sites, development of medical surveillance and screening requirements and procedures, etc. Medical Review consists of review of periodic physical examinations to include laboratory and electrocardiogram interpretation, respirator clearances, return to work reviews, etc. I also testify on the behalf Federal Law Enforcement Agencies in legal depositions for court cases involving job requirements and standards.

Developed the Diabetes policy for Judicial Security Division of the U.S. Marshal Service for the hiring and retention of Court Security Officers that was later utilize for other Federal Law Enforcement organizations.

Created the FOH LEMP instruction forms for Audiology Evaluations and for Diabetes reporting.

**August 31, 2001** – Retired from United States Army after 22 years of service.

**August 1998 – August 2001**, Preventive Medicine Staff Officer and Senior Physician at Headquarters, U.S. Army Forces Command (FORSCOM), ATTN: AFMD, 1777 Hardee Ave., SW, Fort McPherson, GA 30330-1062.

Supervisor: Lieutenant General Eric Schoomaker (Retired) (Former U.S. Army Surgeon General)

U.S. Army Forces Command is the largest Major Army Command Headquarters with over 730,000 Active Army, Army Reserve, and Army National Guard personnel throughout the 48 continental States. As the Preventive Medicine Staff Officer and Senior Physician I developed policy, advised the FORSCOM Surgeon and FORSCOM Commander, coordinated various FORSCOM programs such as Anthrax Vaccination, Health Promotion, Forces Health Protection, Immunizations, Chemoprophylaxis, Medical Screening, Disease and Vector Introduction and Re-entry Prevention, etc., as well as acted as a resource for developing medical threat assessments, health and medical requirements for overseas deployments and travel. I provided evaluation and analysis of accident reports for the FORSCOM Safety Office. I performed reviews, analysis, provided comments and guidance on various directives, regulations, manuals, and other

publications affecting FORSCOM and U.S. Army organizations and initiated, developed and implemented policy in areas such as Weapons of Mass Destruction, Nuclear, Biological, and Chemical Casualty Assessments and Treatment Protocols, Preventive Medicine, Vaccination and Medical Screening, Aerospace/Aviation Medicine, Casualty Evacuation and Care, Health Hazard Assessment, Refugee and Enemy Prisoner of War (EPW) care, TRICARE Health Care Programs, Pregnancy Issues, Ergonomic Issues, Medical Equipment Sets for Field Hospitals and Unit Medical Teams, Personnel Issues, Environmental Hazards, Occupational Health Issues and Policies, Injury Preventive and Control. Additionally, I provided information and talking points for FORSCOM General Officers for Congressional briefings and testimonies.

I coordinated with Department of Defense (DoD), other Army Agencies and Commands for FORSCOM requirements and requests for assistance for and from these agencies. The agencies include the DoD Anthrax Vaccine Immunization Program (AVIP), the U.S. Army Medical Research Institute for Infectious Disease (USAMRIID) and U.S. Army Center for Health Promotion and Preventive Medicine (CHPPM), U.S. Central Command, U.S. Army European Command, U.S. Army Pacific Command, U.S. Southern Command, U.S. Special Operations Command, etc.

Chief Clinical Medicine Staff Officer (on call 24 hours/seven days a week) for all clinical medical issues for FORSCOM to include suspected Biological and Chemical incident analysis, Weapons of Mass Destruction/Terrorism medical response, humanitarian relief, natural disasters, and worldwide deployments.

I was the Exception to Policy Authority for clearing FORSCOM personnel with medical conditions to be deployed overseas. This involves evaluating the medical condition and its potential to prevent the person from being able to perform his or her duties during an overseas deployment and the requirements and impact that the medical condition would have on austere medical facilities that were available at the overseas site.

Developed and implemented physician-staffing plan for U.S. Army Forces Command Active Army Units to include Command positions, surgeons, preventive medicine, psychiatrist, flight surgeons, and field surgeons.

I developed a series of Deployment Information Sheets on the subjects of Immunizations, Chemoprophylaxis, and Medical Screening for FORSCOM units deploying to a variety of locations around the world. These documents could be emailed or faxed to units anywhere in the world and are updated as new information is received.

I worked in coordination with the US Army Medical Research Institute for Infectious Diseases (USAMRIID) to develop the Protocol for Emergency Prophylaxis of Soldiers Deploying Overseas While Completing the Anthrax Vaccination Series. This protocol was established to protect deploying soldiers, who were in the process of completing, but had not finished the initial three shot Anthrax vaccination series prior to deploying and were in an operational environment where they could be exposed to an Anthrax release.

**January 1998 - July 1998**, Deployed as the United States Support Group – Haiti (USSPTGP - Haiti) Preventive Medicine Officer and Senior U.S. Military Physician in Port-au-Prince, Haiti.

U.S. Support Group-Haiti  
APO AE 09301-8580

Supervisor: Colonel Raymond J. Spirlet (Retired)

Provided all preventive medicine and aviation medicine support for U.S. Armed Forces, U.S. Embassy Personnel, Department of Justice Personnel, and U.S. Agency for International Development Personnel

currently in Haiti. This included food service inspections, food inspection, water treatment, occupational health and medicine, disease and vector control, injury control, humanitarian service missions, and consultations to various U.S., Haitian, Pan American Health Organization (PAHO), and Non-Governmental Organizations (NGOs) in the Republic of Haiti.

Supervise a staff of two Preventive Medicine and Veterinary Technicians.

I was appointed Contracting Officer Representative (COR) for food service, food storage, and water production. As the COR, my staff and I took what had been an adversarial relationship between the U.S. Military and the Contractor, and created a partnership program with non-punitive correction of deficiencies, reward for performance that exceeded standards, and encouragement and reward for innovation. This resulted in improved food service staff morale and improved sanitary conditions.

I worked with the Engineering Section of the USSPTGP-Haiti to develop a Water Well Community Handbook to aid small communities in forming Water Well Committees to oversee management and maintenance of the wells the USSPTGP-Haiti Engineers drilled and the Civil Affairs staff to identify, sort, assess the usefulness, and distribute over \$1.8 million dollars worth of medical equipment and supplies to various Non-Governmental Organizations (NGOs) and Haitian Government Agencies.

**October 1997** - Promoted to Colonel, Medical Corps

**July 1997-January 1998**, Deputy Director of Health Services, U.S. Army Medical Department Activity and Leonard Wood Army Community Hospital, Fort Leonard Wood, MO 65473-8922

Supervisor: Colonel Richard W. Smerz (Retired)

I directed a Preventive Medicine Service, Health Promotion Program, and Industrial Hygiene Program and supervised a staff of 25 civilian and military personnel providing services to Fort Leonard Wood, MO, various Active Army, Army Reserve, and National Guard installations and facilities in St. Louis, MO, and over the States of Missouri, Iowa, and part of Illinois. The Health Promotion Center and Health Promotion Clinic provided highly innovative programs that significantly reduced the demand for medical services while improving the health of service members and their families. The Health Promotion Center provides 23 different classes on a wide variety of health subjects. The Health Promotion Clinic was staffed with two nurse practitioners that provided medical management of patients diagnosed with diabetes, hyperlipidemia, hypertension, or asthma. Additionally, they also ran the Zyban™ Smoking Cessation Clinic. Follow-up studies of emergency room utilization demonstrated a significant reduction in emergency room visits from the patients being followed in the Health Promotion Clinic compared to patients not followed in the clinic.

Chief of the Nuclear, Biological, and Chemical (NBC) medical decontamination team for Fort Leonard Wood. This team responded to NBC events at Fort Leonard Wood and the surrounding area and was given an elevated status during my tenure due to the relocation of the U.S. Army Chemical School to Fort Leonard Wood from Fort McClelland, AL.

Provided a Community Health Service that identified positive tuberculosis screening results, performed evaluations, and initiated and monitored prophylactic treatment for all Army Basic Trainees and other personnel at Fort Leonard Wood. A number of our personnel have recently arrived from foreign lands and had significant exposure histories or a history of BCG treatment or both, thereby complicating their evaluations.

Coordinated education programs in Personal Hygiene, Sexually Transmitted Diseases (including HIV), and Self Care for U.S. Army Basic Trainees and Army, Navy, Air Force, and Marine Corps Advanced Individual Training (AIT) Trainees at the Fort Leonard Wood Basic Training Facility and the AIT Courses for the U.S. Army Engineering School, the U.S. Army Military Police School, and the U.S. Army Chemical School.

**June 1994-July 1997**, Chief, Preventive Medicine & Wellness Department for the United States Military Academy, West Point, NY, Fort Devens, MA, and Natick U.S. Army Research, Development & Engineering Center, Natick, MA. Chief Flight Surgeon for West Point and referral Flight Surgeon for lower New York, Connecticut, Rhode Island, and Massachusetts.

U.S. Army Medical Department Activity, West Point, NY 10996-1197

Supervisor: Colonel Teresa Y. Pierce (Retired)

I was responsible for all Preventive Medicine activities in the areas of Environmental Health, Occupational Health, Industrial Hygiene, and Community Health Nursing at the above-named installations. The overall population served was in excess of 30,000. The civilian workforce population covered by Occupational Health was over 5,000. The Chief supervises and evaluates a staff of 23 civilian and military personnel at three locations (two of these locations were 200 miles away in Natick, MA and Fort Devens, MA). The Chief is involved with the day to day operations of these sections as well as future planning, evaluation and approval of building plans and modifications of housing and food service projects, environmental health trouble shooting, hazardous material exposures, infectious disease prevention and vaccine administration programs, travel medicine, and health promotion program development.

The United States Military Academy and the Natick U.S. Army Research, Development & Engineering Center (Natick R, D, & E Center) are unique institutions with varied and diverse operations and problems. The Academy operates as a teaching and research institution with all the inherent risks that accompany a military environment and cutting edge research. The Academy is also a very old and historic installation with many environmental hazards from the past being uncovered every day, and the requirements to not disturb and to preserve the historic appearance while mitigating the problem. The Natick R,D& E Center also operates as a cutting edge research center utilizing often one-of-a-kind materials and procedures. As Chief of Preventive Medicine for these installations, I was involved in identifying and providing surveillance of the potential hazards that may occur from the various materials and processes, and developing strategies to mitigate the danger. I was also the Occupational Medicine Physician for these facilities providing service for hiring physicals, fitness for duty, return to duty, and exposure incident investigation.

Fort Devens, MA was a U.S. Army installation being closed by the Base Realignment and Closure Act. The Preventive Medicine Department was involved in the closure providing a variety of services and information during the transition to civil authority. These services included water testing, food service inspections, occupational health services, environmental hazard evaluation with the Fort Devens Environmental Office, etc.

As the Chief Flight Surgeon, I performed over 200 flight physicals a year for graduating U.S. Military Academy Cadets and provided Aviation Medicine service for all aviation personnel at West Point and Stewart Army Subpost. This included a New York Air National Guard C-5A Galaxy unit and a U.S. Marine Corps Reserve C-130 unit.

**June 1994 - October 1995**, United States Corps of Cadets Surgeon, West Point, NY 10996

U.S. Corps of Cadets, U.S. Military Academy, West Point, NY 10996

Supervisor: Colonel (Retired) Alan Fox

The Corps of Cadets Surgeon is responsible for the day-to-day care of 4000 U.S. Military Academy Cadets. I was responsible for screening and initial assessment of candidate medical waiver requests and review of all commissioning physicals. Additionally, I advised the Brigade Tactical Officer on Cadet health issues, oversees the medical in-processing of each new class, and provided field medical care for Cadet Basic Training.

As the Corps of Cadet Surgeon, my staff and I developed a teaching program for New Cadets in the areas of Personal Hygiene, Injury and Disease Prevention, Sexually Transmitted Disease Prevention, Date Rape and Assault Prevention, Women's Health in the Field Environment, Field Sanitation and Preventive Medicine, and Consideration of Others. Additionally, I developed a Cadet Health Questionnaire that allowed rapid identification of potential health problems to include stress reactions leading to suicide and eating disorders. The information obtained from this questionnaire allow rapid counseling intervention for potential suicide cases and the tailoring of a Cadet Health Promotion Class for the individual Cadet Basic Training Class for the most important health concerns of that class, instead of a one-size-fits-all curriculum. These efforts resulted in a significant reduction in Cadet Basic Training attrition due to health problems, a significant reduction in Sick Call visits, and a reduction in skin infections, respiratory infections, and soft tissue injuries.

Conducted a Foot Blister Mitigation Study using Antiperspirants in conjunction with the U.S. Army Research Laboratory and the U.S. Army Research Institute of Environmental Medicine (See publications).

**December 1993 - June 1994**, Chief, Aeromedical Policy and Standards, U.S. Army Aeromedical Activity, Fort Rucker, AL 36362-5000

Director, U.S. Army Aeromedical Activity, Fort Rucker, AL 36362-5000

Supervisor: Colonel James Zarinczuk (Retired)

In this position, I had responsibility for developing, updating, and maintaining the aeromedical standards for selection of personnel for flight training and the continuing of personnel on flight status, as well as the implementation polices for these standards for the Active Army, the Army Reserve, and the Army National Guard.

During this period, I completely eliminated a four-year backlog of Army Aviation Waiver and Suspension Requests and developed a new Cardiovascular Policy Letter for Army Aviation.

**August 1992 - November 1993**, Director, Aircrew Protection Division, U.S. Army Aeromedical Research Laboratory, Fort Rucker, AL 36362-0577

U.S. Army Aeromedical Research Laboratory, Fort Rucker, AL 36362-0577

Supervisor: COL Dennis Shanahan (Retired)

The Aircrew Protection Division is involved with Protective Life Support Systems, Impact Injury, Repeat Impact Hazards, Test and Evaluation of Aeromedical Equipment for Air Evacuation Aircraft, the Aviation



Epidemiology Data Register (AEDR), Auditory Blast Overpressure Effects, and Military Acoustic Hazards. Additionally, the division performs Health Hazard Assessments (HHA) for whole body vibration and noise, and is developing the repeated impact jolt standard. As Director, I oversaw and reviewed all research protocols and reports, and reviewed and managed the division research budget. The Director supervised, evaluated, and directed the research of 23 staff including several physicians, Ph.D.'s, Engineers, and technicians. Additionally, the Director reviewed and edited all publications produced by the all the research divisions for scientific accuracy and operational applicability.

As Division Director, I was responsible for the Aviation Epidemiology Data Register (AEDR). The AEDR is a database of several hundred thousand records that included annual flight history and physicals for all Army Aviators and Air Traffic Controllers, waivers for medical conditions, and permanent suspensions. The AEDR is used to certify medical fitness for flying duty and to allow the tracking of medical conditions that have been waived. Information is also used to establish and/or change Army Flight Personnel Acquisition and Retention Standards, as well as Aeromedical Policy on various medical conditions such as cardiovascular disease, hypertension, neurological conditions, muscular-skeletal conditions, etc.

August 1992 - November 1993, Coordinating Officer for the Aviation Epidemiology Data Repository Executive Council and Committee

May 1993 - November 1993, USAARL Equipment Planning Committee

**June 1991** - Promoted to Lieutenant Colonel, Medical Corps

**December 1989 - July 1992**, U.S. Army Research Exchange Officer assigned to the Royal Army Medical College, Millbank, London, attached to the British Army Air Corps, Middle Wallop, with duty at the Royal Air Force Institute of Aviation Medicine, Farnborough, Hampshire, GU14 6SZ, United Kingdom

Royal Air Force Institute of Aviation Medicine  
Farnborough  
Hampshire GU14 6SZ  
United Kingdom

Supervisor: Wing Commander Richard Harding, Royal Air Force (Currently retired and living in the United States).

Medical Officer, Safety Officer, and Experimental Subject for the "Establishment of Physiologically Optimal Pressure Assemblies for Use in Future Fighter Aircraft". In this project I participated in all three capacities (Medical Officer, Safety Officer, and Experimental Subject) in rapid decompressions up to 60,000 feet in 3 seconds with duration at altitude of 2 minutes while testing partial pressure assemblies. These assemblies consisted of G-Trousers, a Counter Pressure Vest, Flight Suit, an Oxygen Mask, and a Cloth Helmet. These counter pressure assemblies would be used in future aircraft such as the EuroFighter (EFA).

Coordinator for Flight Helmet Development and Modification for Operation Granby (the British contribution to Desert Shield/Desert Storm). This involved the preparation of the Royal Air Force, British Army, and Royal Navy aviation assets for deployment and battle in Southwest Asia. Projects included work with chemical protective equipment; helmet mounted sighting systems, ejection seat compatibility, oxygen systems, and night vision imaging systems.

Co-invented a new helmet fitting/retention system with Flight Sergeant Roger Croft that was initially used in a passenger helmet in helicopters. This system was successfully used by British Army helicopter pilots in

the Gulf War and was the only system that was instantaneously adjustable to chemical protective gear without the need for refitting. The system has received a patent in the United States. We were awarded the Royal Air Force Strike Command Certificate of Merit in Engineering Achievement for this project in 1992.

Participated as a test subject and medical monitor in various flight tests in the Hunter Attack Jet and the Hawk Trainer Jet.

**July 1986 - November 1989**, Chief, Life Support Equipment/Crew Injury and Epidemiology Branch, Biodynamics Research Division, U.S. Army Aeromedical Research Laboratory, Fort Rucker, Alabama 36362-0577

U.S. Army Aeromedical Research Laboratory, Fort Rucker, Alabama 36362-0577

Supervisor: Colonel David Karney (Retired)

Directed the Special Accident Investigation Team that would assist the U.S. Army Safety Center in the investigation of highly complex or controversial aircraft, airborne and ground accidents.

Directed the Aviation Life Support Equipment Retrieval Program (ALSERP). This Tri-Service program recovered and analyzed aviation life support equipment (helmets, aircraft seats, flight clothing, escape equipment, etc.) for its effectiveness in preventive and reducing injuries and death. Knowledge derived from the analysis was used in designing new and improving existing equipment and aircraft.

I initiated a program to evaluate the effectiveness of airbags in preventing head injuries in helicopter crashes. This program involved building front seat cockpits of the AH-1 Cobra and AH-64 Apache Attack

Helicopters on the acceleration sled at the Naval Biodynamics Laboratory and performing dynamic testing with instrumented impact manikins. The successes of this program lead to the Army awarding a development contract to place airbags in AH-64 Apaches by 1997 and to include airbags in the AH-66 Comanche Helicopter Program.

I directed a project to determine energy attenuating foam depth on the back surface of a Silicon Carbide Ballistic Chest Protector for use by AH-64 Apache Helicopter pilots. This project involved the use of pigs and a 50-caliber gun to study the impact characteristics and forces of a 50-caliber round fired into an aircraft from a distance of one kilometer. Pigs were used to study the physical effects and the 50-caliber round was calibrated to be fired from a barrel mounted vertically to fire up through a two-story test facility with the pig mounted horizontally in a simulated aircraft seat. The minimum foam depth for acceptable protection needed to be determined because if the foam was too thick, it interfered with the movement of the cycle stick and also caused the pilot to lean forward.

August 1986 - November 1989, Member - Aviation Consultation Advisory Panel (ACAP) for the U.S. Army Aeromedical Center, Fort Rucker, Alabama 36362-5333

August 1986 - November 1989, U.S. Army Representative to the Tri-Service Helmet Standardization Working Group (HSWG)

Member of the Tri-Service Oxygen Standardization Working Group

September 1986 - November 1989, Chairman, (USAARL Radioisotope Committee, Chairman - July 1988 - November 1989

October 1986 - November 1989, Chairman, USAARL Laboratory Animal Care and Use Review Committee

November 1986 - November 1989, USAARL Representative to the U.S. Army Aviation Center Space Working Group, Directorate of Combat Developments, Fort Rucker, Alabama 36362

January 1987 - November 1989, USAARL Safety Council

March 1987 - November 1989, U.S. Army Representative to the Tri-Service Flight Environment Working Group (FEWG)

April 1987 - May 1988, Secretary, Society of U.S. Army Flight Surgeons

October 1987 - November 1989, USAARL Scientific Review Committee

November 1987 - November 1989, USAARL Credentials Committee

**July 1983 - June 1986**, Fort Hood, Texas 76544

Supervisor: Colonel Jack Turecek (Retired)

**Deputy III Corps Surgeon for Aviation Medicine** - In this position I directed the health care at three Troop Medical Clinics providing care to over 12,000 personnel (including 6,000 on flight status) and Crash-Rescue Services to two major Army Airfields with over 500 aircraft. Additionally, I directed the medical personnel portion of the Fort Hood Helicopter Air Evacuation System providing Flight Surgeon and Aeromedical Physicians Assistant personnel to accompany patients on Air Evacuation flights and providing consultation regarding the whether a patient's medical condition could be affected by air transport. Performed over 1000 flight physicals each year to include FAA Class II and III Medical Certificates and FAA Air Traffic Control

Medical Certificates. I developed quality assurance program to reduce both the military flight physical and the FAA Medical Certificate return rate for errors to zero.

**6th Cavalry Brigade (Air Combat) Surgeon** (A 2,500 person unit with 200 aircraft.)

Aeromedical Coordinator for the AH-64 Attack Helicopter Single Station Fielding Originator and Coordinator of the Troop Medical Clinic (Aviation) #10 and #12 Renovation and Enlargement Program. This involved clinic design and obtaining funding for construction of two Aviation Medicine Clinics at Fort Hood. The clinics provided health care for over 10,000 personnel and crash-rescue service for two major military airfields.

Initiated the first Nicorette™ Smoking Cessation Clinic for Aviators in the U.S. Army.

Member - III Corps Aviation Standards Committee and the III Corps Aviation Safety Council

August 1983 - September 1983, Senior Operational U.S. Army Flight Surgeon, Bright Star '83' Cairo West Air Base, Egypt

June 1985 - Member of the Aviation Standards and Training Seminar (ASTS) Team to Korea

June 1985 - Promoted to Major, Medical Corps

August 1985 - Senior Operational U.S. Army Flight Surgeon, Bright Star '85', Marka Air Base, Amman, Jordan

September 1985 - June 1986, Member - AMEDD Space Initiatives Advisory Committee, Directorate of Combat Developments, U.S. Army Academy of Health Sciences, Fort Sam Houston, Texas 78234

**September 1981 - June 1983**

USAF Aerospace Medicine Residency, The Johns Hopkins University School of Hygiene and Public Health, Baltimore, MD and the USAF School of Aerospace Medicine, Brooks AFB, TX

Supervisor at John Hopkins University: Dr. Anna Baetjer (deceased)

Supervisor at the USAF School of Aerospace Medicine: Colonel Whitman E. McConnell (210) 691-0281

**October 1980 - August 1981**, Battalion and Division Flight Surgeon, 502nd Combat Aviation Battalion, 2nd Armored Division, Fort Hood, Texas 76544

502nd Combat Aviation Battalion, 2nd Armored Division, Fort Hood, Texas 76544

Supervisor: Colonel John Kennedy (Retired) (No telephone number available. Unit deactivated in 1985.)

Provided all medical care and field medical support to an 850 person Combat Aviation Battalion.

**July 1979 - June 1980**, Categorical Pediatric Internship, Brooke Army Medical Center, Fort Sam Houston, Texas 78234

Department of Pediatrics, Brooke Army Medical Center, Fort Sam Houston, Texas 78234

Supervisor: Colonel Luis Canales, MC (Retired)

**June 1979** - Promoted to Captain, Medical Corps (MC). Reported for Active Duty 24 June 1979

**December 1976** - Commissioned Second Lieutenant Medical Service Corps, USAR Health Profession Scholarship Program (HPSP)

**CIVILIAN AND MILITARY EDUCATION/PROFESSIONAL TRAINING:**

Categorical Pediatric Internship, Brooke Army Medical Center, Fort Sam Houston, Texas 78234  
July 1979 - June 1980

U.S. Army Aviation Medicine Basic Course 80-3, Fort Rucker, Alabama 36362  
August 1980 - September 1980, Soloed in TH-55 Training Helicopter.

USAF Operational Aeromedical Problems Course, USAF School of Aerospace Medicine  
Brooks AFB, Texas 78235, January 1981

USAF Residency in Aerospace Medicine - Phase I and II

Phase I - The Johns Hopkins University School of Hygiene and Public Health, September 1981- May 1982. Awarded a Masters Degree in Public Health.

Phases II - The USAF School of Aerospace Medicine, Brooks AFB, Texas 78235 June 1982 - June 1983

American College of Occupational and Environmental Medicine (ACOEM) MRO I: Drug and Alcohol Testing Fast Track Course, 15-16 October 2011, Atlanta, GA

**In addition to course work in Aerospace Medicine, Environmental Medicine, and Occupational Medicine, the following courses (through June 1983) were also completed during Phase II of the Aerospace Medicine Residency Program:**

USAF Medical Officer Flight Familiarization Training S-V8E-A (T-37 and T-38 Trainer Jets)  
Randolph AFB, Texas, September 1982 - October 1982

USAF Water Survival Training Course, Homestead AFB, Florida, November - December 1982

USAF Compression Team Training Course, USAF School of Aerospace Medicine, December 1982

USAF Arctic Survival Training Course, Eielson AFB, Alaska, January 1983

USAF Battlefield Medicine Course, USAF School of Aerospace Medicine, January 1983

USAF Aeromedical Problems Course, USAF School of Aerospace Medicine, January 1983

USAF Global Medicine Course, USAF School of Aerospace Medicine, February 1983

Crash Survival Investigator Course 83-3 (Basic), International Center for Safety Education, Inc.  
Tempe, Arizona, May 1983

Tri-Service Combat Casualty Care Course (C4), U.S. Army Academy of Health Sciences  
Fort Sam Houston, Texas 78234, June 1983

**The following courses were completed after my Aerospace Medicine Residency as part of career development and mission requirements:**

Medical Management of Chemical Casualties, Institute for Chemical Defense, Aberdeen  
Proving Grounds, Maryland, March 1984

U.S. Army Aeromedical Problems Course, U.S. Army School of Aviation Medicine, Fort  
Rucker, Alabama 36362-5333, April 1984, April 1985, April 1986, April 1987

Crash Survival Investigators Course 85-2 (Advanced), International Center for Safety  
Education, Inc., Tempe, Arizona, September 1985

U.S. Army Medical Department Advanced Course, Graduated October 1987

Total Quality Management for Process Action Teams, 28 September - 2 October 1992, U.S. Army  
Management Engineering College, Rock Island, IL

Personnel Management for Executives (PME) Seminar (FORSCOM), New Orleans, Louisiana August 1993

6AF5 Principles of Preventive Medicine, AMEDD Center & School, Fort Sam Houston, Texas March - April 1994 Distinguished Honor Graduate

U.S. Army Medical Research Institute of Infectious Diseases (USAMRIID) Medical Management of Biological Casualties Course, 16, 18, and 19 September 1997

Center for Health Promotion and Preventive Medicine (CHPPM) Risk Communication Course, Fort Leonard Wood, MO, January 1998

Operational and Environmental Medicine Course, U.S. Army Institute of Environmental Medicine, Natick, MA, May 1998

U.S. Department of Health and Human Services Basic Project Officer Course – Honor Graduate – 2003

U.S. Department of Health and Human Services Centers for Disease Control and Prevention Scientific Ethics Training Course - 2003

Oak Ridge Institute for Science and Education Radiation Emergency Assistance Center/Training Site (REACT/S) Handling Radiation Emergencies Course – 2004

Family Health International Good Clinical Practice Workshop – February 26-27, 2004

FBI/CDC Joint Investigations Training Course – May 23-26, 2005

Department of Homeland Security Incident Command System (ICS) Courses 100, 200, and 300 – January 2006 at CDC

#### **ACADEMIC APPOINTMENTS:**

Instructor – Overview of Bioterrorism Agents, Public Health Readiness Certificate Program, FEMA Noble Training Center, Anniston, AL

Special Lecturer - The AH-64 Apache Helicopter, Head Anthropometry, and Desert Operations, U.S. Army School of Aviation Medicine, Fort Rucker, AL

Instructor in Altitude Physiology, Noise and Communications, Crash Survival, Helmet Systems, Royal Air Force Institute of Aviation Medicine and the British Army Air Corps, Royal Aerospace Establishment (RAE), Farnborough, Hampshire, United Kingdom

Lecturer in Preventive Medicine, Field Hygiene, Aviation Medicine, Personal Hygiene, Date Rape and Assault at the United States Military Academy at West Point, New York.

#### **AWARDS:**

Certificate of Appreciation, 502nd Combat Aviation Battalion, 2nd Armored Division  
 Army Service Ribbon  
 Army Commendation Medal – first oak leaf cluster  
 Meritorious Service Medal - first oak leaf cluster

Legion of Merit  
 Armed Forces Reserve Medal  
 National Defense Service Medal  
 Master Flight Surgeon Badge  
 Air Assault Badge  
 Certificate of Achievement - U.S. Army Aviation Center  
 Outstanding Young Men of America 1986  
 Outstanding Achievement Award 1987-88, Society of U.S. Army Flight Surgeons  
 Royal Air Force Strike Command Certificate of Merit for Engineering  
 Achievement June 1992  
 Overseas Long Tour Ribbon  
 Fellow, Aerospace Medical Association 1993  
 Army Superior Unit Ribbon  
 Distinguished Honor Graduate, Course 6AF5 - Principles of Preventive  
 Medicine 1994  
 Armed Forces Service Medal for Haiti Service Jan 1998 to July 1998  
 Order of Military Medical Merit  
 Joint Meritorious Unit Award for Haiti Service Jan 1998 to July 1998  
 Society of U.S. Army Flight Surgeons Order of Aeromedical Merit  
 Federal Occupational Health Director's Award for Dedication to the Principles  
 of Customer Service – May 2002  
 Department of Health and Human Services Secretary's Award for Distinguished Service as a  
 member of the SARS and Monkeypox Public Health Response Teams – 2004  
 Department of Health and Human Services Secretary's Award for Distinguished Service as a  
 member of the 2004 Influenza Vaccine Shortage Response Team  
 Silo Busters: Collaborative Success Award 2005 as a member of the SARS Preparedness Team  
 Silo Busters: Collaborative Success Award 2005 as a member of the CDC Influenza Response  
 Team  
 Outstanding Unit Citation – Monkeypox Outbreak Response Team  
 AOCOPM John Cahill Memorial Lecturer in Aerospace Medicine "Aviation  
 History" - March 2011  
 FAA Outstanding Innovator Award – April 18, 2013  
 FAA AAM Outstanding Team Award – April 3, 2015

**MILITARY OCCUPATIONAL SPECIALTY (MOS):**

61N9B - Board Certified Aerospace Medicine Specialist  
 60C - Preventive Medicine Officer

**LICENSE:** Texas (current) #F9171 - Medical License - Issued 1981  
 Georgia (current) #049636 - Medical License - Issued January 2001

**CERTIFICATION:** Board Certification - American Board of Preventive Medicine (Aerospace  
 Medicine) 30 January 1984  
 Board Eligible in Occupational Medicine and Preventive Medicine  
 Medical Review Officer Certification 06 SEP 2017 – Certificate #17-12303

**CIVILIAN DESIGNATIONS:** FAA Senior Aviation Medical Examiner #00123

**SECURITY CLEARANCE:** In the past, I have held a U.S. Military TOP SECRET Clearance, a NATO COSMIC Clearance, and a SECRET Security Clearance. I currently hold a High-Level Public Trust Clearance with the FAA.

**MEMBERSHIPS/PROFESSIONAL SOCIETIES:**

Aerospace Medical Association (AsMA) – Fellow  
 International Academy of Aviation and Space Medicine (IAASM) – Academician  
 Space Medicine Association  
 Association of the U.S. Army (AUSA)  
 The Johns Hopkins University Alumni Association  
 Society of U.S. Army Flight Surgeons (Life Member)  
 Army Aviation Medicine Association  
 Army Aviation Association of America  
 National Space Society  
 Emory University Vaccine Dinner Club

**PATENTS:**

United States of America Patent Number 5,315,718 for Protective Helmet and Retention System issued 31 May 1994 to LTC John V. Barson, U.S. Army and Flight Sergeant Roger J. Croft, Royal Air Force

**PUBLICATIONS:**

Surabhi Vora,<sup>1</sup> Inger Damon,<sup>8</sup> Vincent Fulginiti,<sup>10,11</sup> Stephen G. Weber,<sup>3,4</sup> Madelyn Kahana,<sup>2</sup> Sarah L. Stein,<sup>5</sup> Susan I. Gerber,<sup>7</sup> Sylvia Garcia-Houchins,<sup>3</sup> Edith Lederman,<sup>8</sup> Dennis Hruby,<sup>12</sup> Limone Collins,<sup>13</sup> Dorothy Scott,<sup>14</sup> Kenneth Thompson,<sup>6</sup> John V. Barson,<sup>9</sup> Russell Regnery,<sup>8</sup> Christine Hughes,<sup>8</sup> Robert S. Daum,<sup>1</sup> Yu Li,<sup>8</sup> Hui Zhao,<sup>8</sup> Scott Smith,<sup>8</sup> Zach Braden,<sup>8</sup> Kevin Karem,<sup>8</sup> Victoria Olson,<sup>8</sup> Whitney Davidson,<sup>8</sup> Giliane Trindade,<sup>8</sup> Tove Bolken,<sup>12</sup> Robert Jordan,<sup>12</sup> Debbie Tien,<sup>12</sup> and John Marcinak<sup>1</sup>, Sections of <sup>1</sup>Infectious Diseases and <sup>2</sup>Critical Care, Department of Pediatrics, and <sup>3</sup>Infection Control Program, and Sections of <sup>4</sup>Infectious Diseases and <sup>5</sup>Dermatology, and <sup>6</sup>Department of Pathology, University of Chicago Medical Center, and <sup>7</sup>Chicago Department of Public Health, Chicago, Illinois; <sup>8</sup>Poxvirus and Rabies Branch and <sup>9</sup>Division of Bioterrorism Preparedness and Response, Centers for Disease Control and Prevention, Atlanta, Georgia; <sup>10</sup>University of Arizona, Tucson; <sup>11</sup>University of Colorado, Denver; <sup>12</sup>SIGA Technologies, Corvallis, Oregon; <sup>13</sup>Vaccine Healthcare Centers Network, Department of Defense, and <sup>14</sup>US Food and Drug Administration, Washington, D.C. “Severe Eczema Vaccinatum in a Household Contact of a Smallpox Vaccinee” *Clinical Infectious Diseases* 2008; 46:1555–61 (15 May)

Rotz, L., Barson, J.V. “Chapter 4 - Prevention of Specific Infectious Diseases – Smallpox.” Centers for Disease Control and Prevention. *Health Information for International Travel 2008 (The Yellow Book)*. Atlanta: US Department of Health and Human Services, Public Health Service, 2007.  
 CDC Health Information for International Travel (Yellow Book)

Barson, J.V. (Centers for Disease Control and Prevention, National Center for Infectious Disease, Bioterrorism Preparedness and Response Program, Atlanta, GA) – *Science and Technology Watch Column - “Microwave Oven to the Stars?”*, *Aviation, Space, and Environmental Medicine* 2006; 77:1302 (December)

Hutwagner, L., Barson, J.V. (Centers for Disease Control and Prevention, National Center for Infectious Disease, Bioterrorism Preparedness and Response Program, Atlanta, GA) – *Science and Technology Watch*



Column - "Use of the Early Aberration Reporting System (EARS) for Detection of Bioterrorism Agent Attacks", Aviation, Space, and Environmental Medicine 2005; 76:1001 (October)

Barson, J.V. (Federal Occupational Health Law Enforcement Medical Programs, Atlanta, GA) – Science and Technology Watch Column - "Facial Recognition Technology (FERET)" Aviation, Space, and Environmental Medicine 2003; 74:590 (May).

Bolton, JC, Gaydos JC, Barker, T, Barson, JV, Gackstetter, GC, Gray, GC, Huff, WB, Lohman, KI, May, L, Myint, KSA, Nauschuetz, WF, Nelson, AM, Neville, JS, Niemeyer, DM, Novak, DM, O'Brief, J, Pixley, C, Plotkin, G, Rumm, PD, Wasserman, GM. Military public health laboratory workshop Group B: A Department of Defense directory of public health laboratory services for infectious agents and public health laboratory system - 22-23 September, 1999 Mil Med 2000:165 (7 suppl 2):66-69.

Knapik, J.J., Reynolds, K., Barson, J. "Risk Factors for Foot Blisters during Road Marching: Tobacco Use, Ethnicity, Foot Type, Previous Illness, and Other Factors." Military Medicine, 1999 February, 164, 2:092.

Knapik, J.J., Reynolds, K., Barson, J. "Influence of an Antiperspirant on Foot Blister Incidence During Cross-Country Hiking." Journal of the American Academy of Dermatology, 1998 August; 39 (2 Pt 1):202-6.

Rosenberg, M.E., Barson, J.V., Pollard, A.J. "Auditory Localizing Acuity During Acute Exposure to Altitude." Aviation, Space and Environmental Medicine, 1994, 65:649-53.

Shannon, S.G., Bruckart, J.E., Barson, J.V. May 1993 "Reported Body Weight of U.S. Army Aviators: 1 January 1988 to 31 December 1992" Fort Rucker, AL: U.S. Army Aeromedical Research Laboratory. USAARL LR 93-12-4-8

Licina, J.R., Bruckart, J.E., Barson, J.V., Shanahan, D.F. October 1992 "Crashworthy Features of the Grumman/Schweizer Candidate New Training Helicopter to Support the New Training Helicopter

Crashworthiness Analysis for the Training Effectiveness User Evaluation" Fort Rucker, AL: U.S. Army Aeromedical Research Laboratory. USAARL LR-93-05-4-5

Bruckart, J.E., Licina, J.R., Barson, J.V., Shanahan, D.F. October 1992 "Crashworthy Features of the Eurocopter/II (Turbomeca) Candidate New Training Helicopter to Support the New Training Helicopter Crashworthiness Analysis for the Training Effectiveness User Evaluation" Fort Rucker, AL: U.S. Army Aeromedical Research Laboratory. USAARL LR-93-4-4-4

Shanahan, D.F., Licina, J.R., Barson, J.V., Bruckart, J.E., October 1992 "Crashworthy Features of the Eurocopter/I (Allison engine) Candidate New Training Helicopter to Support the New Training Helicopter Crashworthiness Analysis for the Training Effectiveness User Evaluation" Fort Rucker, AL: U.S. Army Aeromedical Research Laboratory. USAARL LR-93-3-4-3

Barson, J.V., Bruckart, J.E., Licina, J.R., Shanahan, D.F. October 1992 "Crashworthy Features of the Enstrom Candidate New Training Helicopter to Support the New Training Helicopter Crashworthiness Analysis for the Training Effectiveness User Evaluation" Fort Rucker, AL: U.S. Army Aeromedical Research Laboratory. USAARL LR-93-2-4-2

Licina, J.R., Bruckart, J.E., Barson, J.V., Shanahan, D.F. October 1992 "Crashworthy Features of the Bell TH206 Candidate New Training Helicopter to Support the New Training Helicopter Crashworthiness

Analysis for the Training Effectiveness User Evaluation" Fort Rucker, AL: U.S. Army Aeromedical Research Laboratory. USAARL LR-93-1-4-1

Bruckart, J.E., Licina, J.R., Barson, J.V., Shanahan, D.F. September 1992 "Plan for Support of Crashworthiness Analysis of Candidate New Training Helicopters during the Training Effectiveness User Evaluation" Fort Rucker, AL: U.S. Army Aeromedical Research Laboratory. USAARL LR-92-11-4-6

Barson, J.V., Croft, R. J., 1992 "Interim Report of the AERDC Experimental Trial 1/2/89T Type 15 Helicopter User Helmet" Royal Air Force Institute of Aviation Medicine, Farnborough, Hampshire, GU14 6SZ, RAF IAM Aircrew Equipment Report No. 622

Barson, J. V., Croft, R. J. "RAF IAM Proposed Helmet Fitting/Retention System" AGARD Conference Proceedings 517 - Helmet Mounted Displays and Night Vision Goggles, AGARD-CP-517 December 1991

Alem, N. M., Shanahan, D. F., Barson, J. V., and Muzzy III, W. H. January 1991 "The Airbag as a Supplement to Standard Restraint Systems in the AH-1 and AH-64 Attack Helicopters and Its Role in Reducing Head Strikes of the Copilot/Gunner" Fort Rucker, AL: U.S. Army Aeromedical Research Laboratory. USAARL Report No. 91-6 Volume I

Alem, N. M., Shanahan, D. F., Barson, J. V., and Muzzy III, W. H. January 1991 "The Airbag as a Supplement to Standard Restraint Systems in the AH-1 and AH-64 Attack Helicopters and Its Role in Reducing Head Strikes of the Copilot/Gunner" Fort Rucker, AL: U.S. Army Aeromedical Research Laboratory. USAARL Report No. 91-6 Volume II

Barson, J. V., Croft, R. J. December 1990 "Anthropometric Fit and Impact Hazard Assessment of Three Active Noise Reduction (ANR) Systems" Royal Air Force Institute of Aviation Medicine, Farnborough, Hampshire, GU14 6SZ, IAM Letter Report No 028/90

Barson, J. V., Croft, R. J. RAF IAM Helmet Fitting/Retention System, Invention Report No 5948, Pats 1B, R69 Building, RAE Farnborough, Hampshire, United Kingdom, June 1990.

Barson, J. V. October 1990 "Aircraft Integration Study of the Type 15 Army Helicopter User Helmet" Royal Air Force Institute of Aviation Medicine, Farnborough, Hampshire, GU14 6SZ, RAF IAM Aircrew Equipment Report No 608

Haley, J. L. Jr., Barson, J. V., Rash, C. E., Mozo, B. T. 1990 "Test and Evaluation Report: Aircrew Integrated Helmet System - Head Gear Unit-56 (HGU-56) Proof of Principle Phase" Fort Rucker, AL: U.S. Army Aeromedical Research Laboratory. USAARL LR-90-8-4-1

Barson, J. V. January 1989 "New Things in Old Packages? The Improved SPH-4 is Coming!" Fort Rucker, AL; U. S. Army Aviation Digest

Barson, J. V., Haley, J. L., Jr., Licina, J. R., Mozo, B. T., Rash, C. E., 1988 "Revision for the Health Hazard Issues in the Helmet Integrated Display and Sighting System (HIDSS) for the Light Helicopter Experimental (LHX)" Fort Rucker, AL: U.S. Army Aeromedical Research Laboratory. USAARL LR-88-21-4-10

Barson, J. V., Pritts, D. P., Lanoue, B. A. 1988 "TPL...Installation, Fitting, and Maintenance for the SPH4 Helmet" (Video Research Report) Fort Rucker, AL: U.S. Army Aeromedical Research Laboratory. USAARL Report No. 88-18

Barson, J. V., Licina, J. R., Mozo, B. T. 1988 "OV1 Helmet Requirements: A Review of SPH4 Performance and Comparison of Alternative Candidate Technologies" Fort Rucker, AL: U.S. Army Aeromedical Research Laboratory. USAARL LR-88-17-4-8

Rash, C. E., Martin, J. S., Gower, D. W., Licina, J. R., Barson, J.V. 1987 "Evaluation of the U.S. Army Fitting Program for the Integrated Helmet and Display Sighting System." Fort Rucker, AL: U.S. Army Aeromedical Research Laboratory. USAARL Report No. 87-8

"Health Hazards Issues in the Helmet Integrated Display and Sighting System (HIDSS) for the Light Helicopter Experimental (LHX). 1986 " Fort Rucker, AL: U.S. Army Aeromedical Research Laboratory. USAARL LR-87-141

### **PRESENTATIONS AND LECTURES:**

Presentations at the Federal Aviation Administration (FAA) Aviation Medical Examiner (AME) Basic Course and Regional AME Seminars.

Presentations on Bioterrorism to various groups such as Washington State University, 3rd Annual Army War College Reserve Component Workshop, American Association of Airport Executives Fire Chief Conference, FEMA's Public Health Readiness Certificate Program, Environmental Protection Agency (EPA) 2005 Airport Preparedness Workshop, Department of Homeland Security Exercise & Evaluation Program Working Group, Purdue University Measured Response 2003 Conference, and the Oklahoma State University College of Osteopathic Medicine.

Invited Speaker at the 5th Interservice/Industry Acceleration Colloquium on "Augmented and Advanced Helmets in a Dynamic Acceleration Environment" hosted by The Armstrong Laboratory of the USAF Human Systems Division, 10 May 1991. Presentation entitled "RAF IAM Proposed Helmet Fitting/Retention System".

Advisory Group for Aerospace Research and Development (AGARD) 71st Panel/Meeting of Aerospace Medical Panel on Helmet Mounted Displays and Night Vision Goggles, 2 May 1991, made presentation entitled "RAF Institute of Aviation Medicine Proposed Helmet Fitting/Retention System".

Presentation on U.S. Army Aviation Life Support Equipment to the Royal Air Force Institute of Aviation Medicine May 1990.

Initiated, coordinated, and chaired a panel at the 1989 Aerospace Medical Association Annual Meeting and Scientific Seminar entitled "Army Aviation Medicine Comes of Age".

Joint Committee on Aviation Pathology (JCAP) 16th Scientific Session, DCIEM, Toronto, Canada, November 1988, made a presentation entitled "Analysis of an Unusual Fatal Head Injury in an AH-64A Attack Helicopter Crash".

Aerospace Medical Association 1987 Annual Meeting and Scientific Seminar, Civilian Air Evacuation Panel, made a presentation entitled "The Need for Aviation Life Support Equipment (ALSE) in the Civilian Air Evacuation Community".

**PERSONAL:****CIVIC ACTIVITIES:**

Former Centers for Disease Control and Prevention Speakers Bureau  
USO Volunteer  
Former U.S. Army Forces Command Speakers Bureau  
Former West Point Speakers Bureau Speaker  
Former Assistant Scout Master at West Point and Fort Leonard Wood  
Former Girl Scout Leader at West Point  
Former Mentor for McIntosh High School Science Fair Projects  
Boothe Middle School Careers Day Speaker  
Peachtree City Wind Ensemble  
Former President - Peachtree City Wind Ensemble Governing Board