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Synopsis: Research Program Manager, Attorney, and Military Officer with over 25 years of successful civilian management and military leadership within the Department of Defense and United States Army.

Professional Experience

2005 – Present, Division Chief, US Army Research Office Research Triangle Park, North Carolina.

Manage the Army's University Research Initiative Program with an annual budget of 75 million dollars. This program includes the Army's Multidisciplinary University Research Initiative (MURI) Program, the Presidential Early Career Award for Scientists and Engineers (PECASE) Program, and the Defense University Research Instrumentation Program (DURIP). Direct the Army's Environmental Science Basic Research Program, a 14 million dollar basic research program that funds colleges and universities to investigate terrestrial, atmospheric, and habitation science phenomena of interest to the Department of Defense and Army.

ACCOMPLISHMENTS AND SPECIAL PROJECTS:

DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (DARPA), AGENT: Technical expert and contract agent for the Materials with Novel Transport Properties (MANTRA) program, an 11 million dollar program to develop advanced desalination membranes.

SPECIAL ASSIGNMENT: Requested by name to assist the Deputy Under Secretary of Defense for Environmental Readiness, Safety, and International Environmental Programs and to provide technical direction and guidance to United States Southern Command and United States Central Command.

BRIEFED ARMED SERVICES COMMITTEE STAFF: Briefed House and Senate Armed Services majority staff with resulting program funding increase.

VICE PRESIDENT FOR FINANCE AND ADMINISTRATION, BOARD MEMBER, CONSTRUCTION SCIENCES RESEARCH FOUNDATION (CSRF): CSRF is an independent, nonprofit construction industry research organization dedicated to unifying and integrating design communications used in facilities design and construction.

RECOGNIZED LEADER IN US ARMY ENVIRONMENTAL COMMUNITY: Member of a wide range of technical review panels and advisory groups, e.g. the Army Environmental Policy Institute's Foresight Consultative Team Working Group that provides guidance on future key environmental, safety, and health issues facing the Army and the Nation.

2002 – 2005, Research Program Manager, US Army Research Office Research Triangle Park, North Carolina.

Led the Army's Defense Experimental Program to Stimulate Competitive Research (DEPSCOR) and Defense University Research Instrumentation Program (DURIP) Programs. Edited numerous Broad Agency

Announcements in collaboration with the Office of Naval Research and the Air Force Office of Scientific Research. Led the review process of hundreds of university proposals and staffed DoD winner's list for publication with the Office of the Secretary of Defense. Often wrote the response to Congressional queries. Concurrently, Lieutenant Colonel, Engineer Officer (Reserve Component) assigned to International Affairs Division, National Guard Headquarters.

ACCOMPLISHMENTS AND SPECIAL PROJECTS:

INTERNATIONAL PROGRAM PLANNER: U.S. Technical Representative and co-organizer of the Baltic Sea Region Defense Environmental Co-Operation Conference with Latvia, Estonia, Lithuania, Poland, Germany, Sweden, and Russia. Worked to establish Baltic Sea Initiative, an engagement effort initiated in the year 2000 to provide a vehicle for confidence building between Baltic nations.

LEADER IN SCIENCE OUTREACH: President of the Research Triangle Park Chapter of the Scientific Research Society of Sigma Xi, a Science Society; revitalized chapter through joint sponsorship with the North Carolina Museum of Natural Sciences of an innovative public science communication activity called the Research Triangle Park Science Café which continues to this day.

**2000-2002, Civilian, Action Officer on US Army Headquarters Staff
Pentagon, Washington, DC.**

Army Action Officer at the Office of the Director of Environmental Programs, Assistant Chief of Staff for Installation Management. Successfully advocated, planned, programmed, and managed budget program elements for the 122 million multi-disciplinary Environmental Technology Program. Represented the US Army in multiple inter-governmental working groups across DoD and Federal Government. Also: Army Reserve Major, Engineer Officer assigned to the European Command in Stuttgart, Germany.

ACCOMPLISHMENTS AND SPECIAL PROJECTS:

INSERTED ENVIRONMENTAL LIFE CYCLE ANALYSIS INTO MAJOR WEAPON PROCUREMENT: Developed US Army implementation plan for oversight of environmental quality in weapon systems before the Cost Review Board. This guidance is now required of all major weapon systems.

**1998-2000, Acting Civilian Chief, US Army Environmental Programs in Europe
US Army Headquarters, Heidelberg, Germany.**

Initiated 15 million dollar Hazardous Waste, Pollution Prevention (P2), and began Hazardous Material Centers (HAZMART) program for the US Army in Europe. Responsibilities increased until responsible for all environmental programs with 65,000 soldiers in eight countries and a 56 million annual budget. Successfully developed and managed a multidisciplinary work force of five local nationals from three nations and four US citizens. Negotiated numerous issues with host nations and requested by German government to review soil remediation law during promulgation.

ACCOMPLISHMENTS AND SPECIAL PROJECTS:

REDUCED US ARMY EUROPE HAZARDOUS WASTE BILL BY 21%: During a period when European hazardous waste laws were undergoing a fundamental change, led and attended technical meetings with Host Nation and European Union to ascertain the details of the regulatory changes. Using this body of knowledge, worked hard with the Army logistics community and achieved a first ever system wide coordination of both hazardous material and hazardous waste. As a result, we reduced the hazardous waste costs by 21 % within one-year and fundamentally changed for the better Army business practices.

LED CHANGE IN US ARMY HAZARDOUS WASTE MANAGEMENT: Co-authored, *Achieving Integrated Life-Cycle Hazardous Material Management within US Army Europe and Seventh Army*, Federal Facilities Journal (2000). This

article is widely credited as a re-thinking US Army hazardous material management and was formally recognized within the logistics management circles.

1996-1997, Major, US Army, Operation Joint Endeavor, Environmental Engineer

Former Yugoslavia and Hungary.

Designed and led the Operation's environmental program, including compliance, conservation, restoration, and pollution prevention. Managed activities of six personnel and managed contracted activities in four countries and two million dollar environment budget.

ACCOMPLISHMENTS AND SPECIAL PROJECTS:

INTERNATIONAL OUTREACH: Briefed US and Allied senior officers, US diplomats and foreign officials at the diplomatic level on environmental issues and policies. Authored environmental guidance for senior military leaders and edited NATO guidance to all military forces. Technical expert to US-DoD Bilateral Consultation with Hungary and US-Croatian hazardous waste negotiations. Represented US on Hungarian radio at news conference on environmental issues related to operations.

1992-1995, Research Environmental Engineer, US Army Corps of Engineers

Engineering Research and Development Center, Vicksburg, MS.

Environmental Research Group Leader for a 10 million Strategic Environmental Research and Development Program (SERDP) effort. Responsibilities included coordination and maintenance of cooperative relationship between university, regulatory, and industry research efforts nationwide. Planned overall work and set priorities for five person engineer and engineer technician research team responsible for the design and implementation of specific research effort directed toward solving environmental remediation problems.

ACCOMPLISHMENTS AND SPECIAL PROJECTS:

OFFICIALLY COMMENDED THREE TIMES FOR TECHNICAL ACHIEVEMENT: Execution of innovative horizontal drilling project at Rocky Mountain Arsenal, development of an innovative hazardous waste solidification method leading to a patent, and technical development of methods for vehicle wash rack residue management.

Education:

Civilian:

Juris Doctor: 2006, North Carolina Central University, Durham, North Carolina and American University, Washington, DC, School of Law.

Doctor of Philosophy: Civil Engineering-Environmental, 1992
Purdue University, West Lafayette, Indiana.

Masters of Science: Civil Engineering-Environmental, 1989
Purdue University, West Lafayette, Indiana.

Bachelors of Science: Agriculture-Agronomy, 1983
University of Georgia, Athens, Georgia.

Education:*Military:*

- Command and General Staff College**, Leavenworth, Kansas
Executive Leadership and Planning, 1999.
- NATO Engineer Battalion Commander Course**, Munich, Germany
Operations in the International Setting, 1998.
- Combined Armed Services Staff School**, Leavenworth, Kansas
Effective Management, Public Speaking, and Briefings, 1994.
- Aviation Officer Advanced Course**, Dothan, Alabama
Management, Leadership, and Administrative Procedures, 1992.
- Officer, Initial Entry Rotary Wing Flight Training**, Dothan, Alabama
Flight Training and Applied Problem Solving, 1984.
- Armor Officer Basic Course**, Dothan, Alabama
Equipment Maintenance, Management, and Record Keeping, 1983.

Recognition:*Civilian*

- Federal Environmental Engineer of the Year
- Superior Civilian Service Award
- Commander's Award for Civilian Service
- Numerous other official commendations
- Purdue David Ross Fellow

Military

- Armed Forces Expeditionary Medal
- Meritorious Service Medal
- NATO Medal
- Armed Forces Service Medal
- Armed Forces Reserve Medal, M Device
- US Army Reserve Commendation Medal (2)
- National Defense Service Medal
- US Army Achievement Medal
- US Army Service Ribbon
- US Army Aviator Badge
- Past US Army Selectee to NASA Mission Specialist Program

**Professional
Affiliations:**

- 2008-2011, Board Member, Construction Sciences Research Foundation
- 2006-2008, President Research Triangle Park Chapter, Sigma Xi Scientific Society
- Member Tenth Judicial District Bar
- Member North Carolina Bar Association
- American Association for the Advancement of Science
- Tau Beta Phi, Phi Kappa Phi, AGHON Honor Society
- Member, The Army and Navy Club, Washington, DC

**Academic /
Technical
Activities:**

2012

- Invited keynote speaker at the Society of Petroleum Engineers Workshop, Well Construction Automation – Preparing for the Big Jump Forward. Vail, Colorado, July 16-18.
- Review panel member for the US Army Corps of Engineers, Basic Research Portfolio Management Review. Vicksburg, MS, June 4-7.
- Invited speaker at the DoD-HBCU/MI Workshop. Washington, DC, May 29-30.
- Participated in the University of Kansas, Environmental Security Conference examining water-security. Lawrence, KS, April 22-28.
- Led the Army's Basic Research Environmental Sciences Coordinating Group meeting consisting of 30 key Army Environmental Science Research leaders to discuss strategy, directions, and future activities. Adelphi, MD, February 15.
- Reviewer for the Army's Water Security Strategy.
- Reviewer for 22 Geoscience applications and 33 Civil Engineering applications to the National Defense Science and Engineering Graduate (NDSEG) fellowship.
- Technical lead and contracting officer technical representative to Phase II of the Defense Advanced Research Projects Agency (DARPA), Novel Transport Properties (MANTRA) program.
- Technical reviewer for Tank and Automotive Research and Development Center BAA to develop a new, deployable wastewater treatment system.
- Reviewed 43 proposals to fund Army relevant undergraduate research.
- Supervised program planning and execution of the University Research Initiatives (URI) Programs which will execute \$75.4 million in FY12 and resource the Army Multidisciplinary University Research Initiative (MURI) program, the Defense University Research Instrumentation Program (DURIP), and the Presidential Early Career Awards for Scientists and Engineers (PECASE).
- Developed extensive 64-page selection document that was transmitted through the Army to the Office of the Secretary of Defense (OSD) for selection of 2012 MURI projects.
- Supervised MURI topic development and selection process to include convening senior panels and developing a 46-page document to explain the budget position, topic selection process, and topics selected.
- Led response to high priority congressional enquiry on a particular Defense University Research Instrumentation grant.

2011

- Technical speaker and session chair for NATO – Russia Council on Logistics, US European Command, Engineering Aspects of Water Handling and Distribution Workshop; Stuttgart, Germany, September 28-30.
- Participated in the Strategic Environmental Research and Development Program (SERDP) and the Environmental Security Technology Certification Program (ESTCP) Conference. Washington, DC, November 29-30.
- Invited technical speaker at the Army's Combined Transient Training Facilities Working Group and Facility Design Team meeting. Arlington, VA, November 29.
- Represented Army Research Office with US Agency for International Development to discuss transition opportunity for Global Military Operating Environments: Linking Natural Environments, International Security, and Military Operations, August 8-9.
- Represented Army Research Office in technical discussions at the Developing Standardized Design and Testing Procedures for Benchmarking Bioelectrochemical System Advancements Workshop. Penn State University, August 24-26.
- Led program review at Palo Alto Research Center (PARC) of development of a Compact, Field Deployable Flow Cytometer for Rapid Bacterial Identification and Quantitation in Water. Palo Alto, CA, July 26.
- Technical and contract representative for Defense Advanced Research Projects Agency, Materials with Novel Transport Properties (MANTRA) program. Port Hueneme, CA, July 27.
- Technical reviewer for Strategic Environmental Research and Development Program statement of need Development of Sustainable Wastewater Treatment Processes for Forward Operating Bases (ERSON-12-01). Washington, DC, July 6-7.
- Invited reviewer at the Defense Advanced Research Projects Agency, Low-Cost Lightweight Portable Photovoltaics (PoP) Review. National Renewable Energy Laboratory (NREL). Denver, CO, June 29-30.
- Technical reviewer at the Office of Naval Research, Microbial Fuel Cells Program Review. Washington, DC, June 21-22.
- Participated in the North American Membrane Society (NAMS) Annual Conference. Las Vegas, NV, June 4-8.
- Led the Environmental Science Division Review 2011, the Army Research Office Biennial Program Review is an in-depth examination of the program by an

external board of visitors (academic and military). The program possesses 125 active projects with a 2011 budget of 13.3 million dollars and produced 387 peer-reviewed papers published, 124 manuscripts submitted, 604 presentations; 4 patents submitted/awarded; 8 books, 150 graduate students, 43 post docs supported, and resulted in 50 MS and PhDs conferred. Research Triangle Park, NC, May 1.

- Participant in the ICB Army-Industry Collaboration Conference. Santa Barbara, CA, February 11.
- Technical lead and grant officer for Whole-Cell Modeling and Integrated Experimentation of Bioelectrochemical Systems effort at Penn State University.
- Technical leader and contract officer representative on collaborative effort to development of a Compact, Field-deployable Flow Cytometer for Rapid Bacterial Identification and Quantitation in Water at the Palo Alto Research Center (PARC).
- Technical reviewer at the Office of Naval Research, Alternative Energy Systems and High Efficiency Water Purification Systems for Expeditionary Operations Program Review.
- Technical monitor and contracting officer representative for the Defense Advanced Research Projects Agency, Materials with Novel Transport Properties (MANTRA) program.
- Managed the \$74.9 M University Research Initiative Program with two-way communication between and among all stakeholders.

2010

- Participant in the Strategic Environmental Research and Development Program (SERDP) and the Environmental Security Technology Certification Program (ESTCP) meeting. Washington, DC, December 1-2.
- Speaker at the WaterCAMPWS technology meeting. Champaign, IL, November 29-30.
- Invited speaker at the National Institutes of Health Principal Investigators Workshop. Washington DC, October 14.
- Technical reviewer at the US Army Corps of Engineers, Engineering Research and Development Center, Virtual Forward Operating Base Program Review, Ft. Leonardwood, MO, September 28-29.
- Presenter before the Army Basic Sciences Research Review. Washington, DC, July 28.
- Participant in the Army Weather Coordinating Council Meeting. Adelphi, MD,

June 10.

- Represented Army Research Office in technical discussions at the University of Charleston's examination of the applicability of microbial fuel cells to treat wastewater in the base camp environment. Charleston, SC, June 14-15.
- Presenter at the National Defense Industrial Association (NDIA) Environment, Energy Security and Sustainability (E2S2) Symposium. Denver, June 17-18.
- Participated as a technical expert at the Office of Naval Research - microbial fuel cell program review. Washington, DC, May 13-14.
- Planned and participated as a technical expert in the Department of Defense Expeditionary Camp Operational Sustainability Workshop. Washington, DC, May 11-12.
- Participated in the Army Research Laboratory Leadership Conference. Adelphi, MD, April 23.
- Participated in the Battlespace Atmospheric and Cloud Impacts on Military Operations (BACIMO) Conference. Omaha, NE, April 14-16.
- Participated in the Marine Corps and Army Collaboration on Expeditionary Base Camps Meeting. Quantico, VA, March 11-12.
- Invited participant in the Defense Advanced Research Projects Agency sponsored workshop on 'Geothermal Power for Military Operations. McLean, VA, March 23-26.
- Led Army's Environmental Sciences Basic Research Coordinating Group (ESCOG). Hannover, NH, February 10-11.
- Participated in the 3rd Interagency Land Surface Dynamics Workshop. Hannover, NH, February 12.
- Invited speaker to the Defense Advanced Research Projects Agency Technologies Symposium on Humanitarian Operations, January 12-14.
- Authored "Atmospheric Science Decision Paper" to objectively examine whether a Basic Research Atmospheric Science Program should continue at the Army Research Office, and, if so, how might the program be more perfectly aligned with organizational goals and measurable standards of performance.
- Authored paper internal to US Army titled, "Sustainable Base Camp System: Required Capability, 2025 and Beyond" which received a letter of appreciation from Director of Army Capabilities Integration Center (ARCIC), Training and Doctrine Command.
- Manage execution of the Army's \$78.0 M, University Research Initiative (URI),

this included generation of the FY10 Multidisciplinary University Research Initiative (MURI) project recommendations compilation by the technical monitors, dissemination of new topic recommendation report the Office of Secretary on behalf of the Army, development of the Presidential Early Career Award for Scientists and Engineers (PECASE) Candidate Recommendation Report, management of the PECASE and Defense University Research Instrumentation Program (DURIP) announcement, selection, and execution processes and coordination of all activities at the Army, Joint, and Service levels.

- Coordinated the review of the entire US Army Corps of Engineers basic research portfolio and led the Environmental Science review of the Civil Works, Environmental Quality and Installations, Geospatial Research & Engineering, and Military Engineering and the Environmental Science portions, thereof.

2009

- Participant in the Expeditionary Basing Collaborative Program Planning Workshop. Boston, MA, December 18.
- Technical reviewer at the Air Force Office of Scientific Research (AFOSR) Annual Bio-energy Review. Arlington, VA, September 8.
- Invited technical speaker and US delegation representative to the US-Jordanian Bi-lateral Environmental Considerations in Military Operations Seminar. Amman, Jordan, July 11-17.
- Technical advisor to the Deputy Under Secretary of Defense, Director, Environmental Readiness, Safety, & International Environmental Programs in discussions with United States-Chile Defense Consultative Commission and provided out brief of commission meetings to the Chilean Ambassador and Minister of Defense. Washington, DC, May 27-29.
- Participant in the US Army Engineer Research Development Center, Construction Engineering Research Laboratory Net-Zero Energy Workshop. Champaign, IL, February 1-3
- Managed a broad, interdisciplinary division program consisting of a diversified portfolio of more than 65 projects consisting of basic research funded from Office of the Secretary of Defense and advanced research work funded from other DOD sources.
- Led Environmental Science Division possessing 97 active projects representing over \$14.2 million.
- Managed the review of 68 Defense Experimental Program to Stimulate Competitive Research proposals requesting \$33 million and review of 383 FY08 Defense University Research Instrumentation Program (DURIP) proposals requesting \$54 million in cooperation with Office of Naval Research (ONR) and Air Force Office of Scientific Research (AFOSR).

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- Formulated, staffed, and briefed the Army Defense Experimental Program to Stimulate Competitive Research position to Office of the Secretary of Defense, Director for Basic Research and to the House and Senate Armed Services Majority staff leadership.
 - Technical advisor to the Deputy Under Secretary of Defense, Director, Environmental Readiness, Safety, & International Environmental Programs from September 2008 until May 2009 on a half-time basis.

2008

- Technical advisor to the Deputy Under Secretary of Defense, Director, Environmental Readiness, Safety, and International Environmental Programs in discussions with the Commander Central Command. Tampa, FL, December 17-19.
- Participant in 3rd Annual Admiral Thomas H. Moorer Military Energy Security Forum. Washington, DC, December 9.
- Provided environmental technical expertise to the Deputy Under Secretary of Defense, Director, Environmental Readiness, Safety, and International Environmental Programs on issues related to meetings of the US-Chile Defense Consultative, Energy and Environment Sub-group. Washington, DC, December 3.
- Technical reviewer of the George Mason University Environmental Security Research Project. Arlington, VA, September 18.
- Technical advisor to the Deputy Under Secretary of Defense, Director, Environmental Readiness, Safety, and International Environmental Programs in discussions with Army, Air Force, and Navy regarding a range of issues to include European implementation of REACH standards, ozone depleting substance issues, and overseas baseline surveys. Washington, DC, November 8.
- Co-organized the First Army Installation Waste to Energy Workshop, August 2008 and received the US Army Research, Development, and Team Award for the effort.
- Led Environmental Sciences Division through a biennial program review Board of Visitor (BOV) comments included, “We applaud and respect the energy, enthusiasm, and leadership of the division chief and affiliate program managers within the Environmental Sciences Division.” and “Dr. Preston leadership role infuses an inspirational sense of innovation into the division’s ongoing research agenda.”
- Led the introduction of Military Habitation Sciences as a potential thrust of research for the Army Research Office.
- Aggressively pursued diversity initiatives in numerous ways to include performing

as representative to National Science Foundation diversity workshop and led outreach efforts at Historically Black Colleges and Universities.

2007

- Invited speaker at the Strategic Environmental Research and Development Program (SERDP) / Environmental Security Technology Certification Program (ESTCP) 'Partners in Technology' Symposium. SERDP/ESTCP. Washington, DC, December 4 -7.
- Speaker at the US Army Corps of Engineers, Sustainable Contingency Operations meeting. Washington, DC, November 5.
- Technical expert to working group formed comprised of subject matter experts to perform a trade study on the Zero Footprint concept. Boston, MA, October 3-4.
- Briefed Director of Basic Sciences, Office of Secretary of Defense, on the Army Research Office's implementation of the Defense Experimental Program to Stimulate Competitive Research. Washington, DC, October 1.
- Participated in the Terrestrial Sciences Army Environmental Sciences Coordinating Group Meeting. Vicksburg, MS, September 17-18.
- Presented the Environmental Science program to the Army Basic Research Review, with the result that the Basic Research Review panel recognized the effort as "a premier program" in the Army adding value to the Army's Basic Research Program, August 23, 2007.
- Technical reviewer for US Army Corps of Engineers, Red Team. Washington, DC, June 7.
- Recognized by Director, Environmental Readiness and Safety, Office of the Deputy Under Secretary of Defense for exceptional technical competence while serving as an invited, expert member of U.S. delegation to develop the program of instruction (POI) for use in the African Contingency Operations and Training Assistance (ACOTA) program on Environmental Considerations during Contingency Operations in Pretoria, South Africa. Pretoria, South Africa, March 3-10.
- Recognized as one of the Army's premier technical experts in Environmental Science and Engineering as an invited member of highly selective, Army Environmental Policy Institute's Foresight Consultative Team Working a group whose purpose is to provide the Army organizational vision on key environmental, safety, and health issues.
- Led and acted as moderator for an exceptionally successful and innovative public science communication activity, called the North Carolina Science Café, the events sponsored jointly with Sigma Xi and the North Carolina Museum of

Natural Sciences provide topical discussions with leaders in the fields of science and technology. Cafés subjects included, Bird Flu, Human Space Flight: Return to the Moon and Mission to Mars, Chaos, Global Warming, and Dark Matter reaching nearly a 1000 people. Outreach Coordinator WGBH, Boston Public Television attended one and stated that it was one of the best he had attended in the Nation.

- Encouraged and mentored minority employee to apply to the Department of Defense Department of Defense Executive Leadership Development Program (ELDP). Employee subsequently selected by the Under Secretary of Defense (Personnel and Readiness) and the Deputy Under Secretary of Defense (Civilian Personnel Policy) to be a member of the class of 2007.
- Edited DoD Broad Agency Announcement, Defense Experimental Program to Stimulate Competitive Research (DEPSCOR) 2007.

2006

- Topic author and contracting officer representative to Phase II Small Business Innovation Research (SBIR) Kick-off meeting with Infoscitex Corporation and colleagues from Natick Soldier System Center. Boston, MA, November 27-28
- Member of review panel for the Engineer Research and Development Center (ERDC) 2006, Environmental Quality and Installations Basic Research In Progress Review. Vicksburg, MS, October 26
- Selected by the Deputy Director, Environmental Readiness and Safety, Office of the Deputy Under Secretary of Defense as technical expert to be a member of US delegation and present at the NATO, Committee on the Challenges of Modern Society meeting on Military Compounds. Vienna, Austria, May 9 – 11.
- Army Research Office representative the NASA Habitation Science Conference. Orlando, FL, February 6.
- Invited by the Army Engineer School as technical representative to address Army Chief of Staff Initiative 18 to establish and examine new base operations capabilities to support the operational Army in a contingency environment and develop technologies to support the new Department of Defense Directive (DODD) 3000.05 - Military Support for Stability, Security, Transition, and Reconstruction (SSTR) Operations.
- Invited member of the Army Environmental Policy Institute's Foresight Consultative Team Working a group whose purpose is to provide the Army organizational foresight on key environmental, safety, and health issues.
- Led the Army's Defense Experimental Program to Stimulate Competitive Research program; Coordinated the review process of the 104 proposals representing a requested amount of \$55 million;

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- Edited the DoD Broad Agency Announcement, Defense Experimental Program to Stimulate Competitive Research (DEPSCOR) 2006.
 - Led SBIR Small Business Innovation Research (SBIR) through Phase I and into Phase II on topic of "Low Parasitic Loss Solid Waste Preprocessor for Forward Waste to Energy Conversion".
 - Finished a Juris Doctorate in law with a special emphasis on the examination technology transfer issues. These included the importance of licensing, comparison of patents, trademarks, copyrights and trade secrets, the need for intellectual property audits and the mapping intellectual properties, negotiating licenses, government license rights regulations and proprietary, and the valuation of intellectual property.
 - Performed in two extended (3-4 month) developmental assignments, Special Assistant to the ARO Director and Director, Engineering Sciences Directorate.
 - Chaired the Army Science and Technology Master Plan, Chapter V for Basic Research.
 - Presented the Environmental Sciences Division portfolio to the Department of Defense Basic Research Review, in response the review board formally supported the main thrusts of our atmospheric and terrestrial science programs by encouraging increased attention to boundary layer modeling in the terrestrial environment needed, development of predictive models ranging from continental scale to solder scale. April 25-28, 2006
 - Reviewed nineteen of the 2006 Instrumentation Program for Tribal Colleges and Universities (TCUs) proposals, the program aims to enhance science, mathematics, and/or engineering education programs and/or research capabilities at Tribal Colleges and Universities.

2005

- Envisioned and led the Defense Sustainability and Base Camp Workshop (attendance was limited to 25 and included Admiral Richard Truly). Boston, MA, September 21-23.
- Participated in the MIT Institute for Soldier Nanotechnologies one-day research update symposium. Boston, MA, May 18-19.
- Participated in the 3rd Base Camp Workshop, "Base Camp Leadership and Best Practices." West Point, NY, May 10-11.
- Army Research Office Technical representative to the Defense Advanced Research Projects Agency Workshop - 2035 Vision: A Petroleum-Free Military. Annapolis, MD, February 22-24.
- Established an innovative, opportunity driven Environmental Sciences Division

as recognized during the 2005 Division Review. The Chairman of the Board of Visitors stated that the environmental sciences programs “are reaping huge returns on investment for Army Research Office and the Army. Army Research Office is commended particularly for having identified research niches of critical interest to the Army and then for having, in part through effective leveraging, organized competitive and productive, investigator-driven research programs. Foremost with any organization is people and you have talented and dedicated people managing these programs. It was good to see these important programs in such capable hands.”

- Chaired and edited the Army Science and Technology Master Plan, Chapter V for Basic Research.
- Hosted the Army Sustainable Technology Workshop at Army Research Office, April 28, 2005 which included discussions on Sustainable Infrastructure,, Sustainable Military Training and Land Use Planning, Sustainable Acquisition and Procurement, Sustainable Transportation, and assign Priorities for Demonstration/Validation Projects and Identify Technology Partners.
- Topic author for successful Small Business Innovative research topic in Department of Defense key area Materials / Processes, A-10 Engineering Sciences, Solid Waste Preprocessor for Field Waste to Energy Conversion.
- Invited to participate in Defense Advanced Research Projects Agency/Defense Sciences Office Mobile Integrated Sustainable Energy Recovery (MISER) Kick-off Meeting, 7-9 November, 2004.
- Spoke at Montana State, Bozeman, MT and University of Rhode Island, Kingston, RI as the Army’s Defense Experimental Program to Stimulate Competitive Research program manager.
- Topic reviewer for the FY2005 Small Business Technology Transfer (STTR) Programs.
- By-name selectee to the Office of the Assistant Secretary of the Army (Installations & Environment) via the National Defense Center for Environmental Excellence (NDCEE) which was seeking to establish a steering committee for developing a series of focused workshops aimed at facilitating technology transfer to installations in support of sustainability goals
- Reviewer for the Army Research Office, Engineering Sciences Directorate, Small Business Innovation Research (SBIR) review board.
- Reviewer for the Army Research Office, Engineering Sciences Directorate, Multidisciplinary University Research Initiative (MURI) review board.
- Prepared and coordinated the DoD Broad Agency Announcement, Defense Experimental Program to Stimulate Competitive Research (DEPSCOR) 2005.

2004

- Acted as US Technical Representative to the Baltic Sea Region Defense Environmental Co-Operation Conference, Vilnius, Lithuanian, 8-10 October 2003;
- Participated in twelve week national security law seminar culminating with attendance at the American Bar Association National Security Law Seminar, Washington, DC.
- Led the Army Environmental Sciences Coordinating Strategy Planning Workshop. August 4-5.
- Authored immediate formal written response to Speaker of the US House of Representatives question regarding the Defense University Research Instrumentation Program, January 24.
- Provided data analysis of research efforts to the Office of the Secretary of Defense in response to question from the US Senate on Defense Experimental Program to Stimulate Competitive Research.
- Organized four workshops in Kansas, Puerto Rico, West Virginia, and South Dakota to educate university researchers in Army Research Office activities and the overall approach of the Army to technology transfer.

2003

- Acted as Army Chapter Chair for Chapter V: 2003 Basic Research in the Army Science and Technology Master Plan. Edited all chapter input and re-wrote Chapter V: Basic Research the 2003 Army Science and Technology Master Plan.
- Acted as North Carolina Ecybermission Ambassador. Established contacts with the NC Governor's Office and Department of Education, which resulted in all school administrators in the state being notified of the program via email from the governor's education director.
- Prepared and presented at the following State Experimental Program to Stimulate Competitive Research meetings – South Carolina, Kentucky, North Dakota, Vermont, Delaware, West Virginia, Montana, and Idaho.

2002

- Technical leader, Headquarters, US Army, Office of Environmental Programs, Pentagon for the Environmental Quality Technology program. As such, continually briefed senior Army leadership on the program and successfully defended the program through the Department of Defense budgetary process.
- Co-chaired Environmental Quality Technology program coordinating committee

which identified, prioritized, resourced and tracked program execution of Army environmentally quality related research and development projects.

- Co-led the development of a system of advocacy to defend environmental quality (EQ) related weapon system funds. Wrote the business plan and defended the resources for the acquisition activities at the Army Environmental Center. The resulting team reviewed environmental considerations in 26 weapon systems to include the Future Combat System (FCS), Tactical High Energy Laser (MTHL), and Advanced Precision Kill Weapon System (APKWS), Multiple Launch Rocket System (MLRS), Patriot Advanced Capability - 3 (PAC- 3), Interim Armored Vehicle, and Longbow Apache.
- Led successful drive to differentiate industrial, acquisition, and installation pollution prevention that resulted in the industrial pollution prevention (P2) being incorporated into the equipment program element group portion of the Army Programming and Guidance Memorandum (APGM), the first time that P2 has been recognized as a function outside the environmental stovepipe and inside the way of doing business
- Participated in the Strategic Environmental Research and Development Program (SERDP) and the Environmental Security Technology Certification Program (ESTCP) Conference Annual Conference. Washington, DC, November, 27-28.
- Represented the Army at the Federal Remediation Technology Round Table, a Federal forum to discussion of remediation related technology issues.
- Represented the Army Staff on the Department of Defense Global Climate Change Working Group.

Papers and Publications:

Preston, Kurt and William Goran (2008). Habitation Science: The Science of Sustainment. Habitation: International Journal for Human Support Research, Vol. 11, No. 4.

Proceedings of the 1st Army Installation Waste to Energy Workshop (2008). Holcomb, Franklin H., René S. Parker, Thomas J. Hartranft, Kurt Preston, Harold R. Sanborn, and Philip J. Darcy (ERDC/CERL TR-08-11).

Preston, Kurt T. (2006). Brief Introduction: Federal Technology Transfer and Intellectual Property Management in the Context of the US Army Research Office, Technology Transfer Law Seminar, North Carolina Central University, School of Law.

Preston, Kurt, Editor and Committee Chairperson for Chapter V: Basic Research (2005). The US Army Science and Technology Master Plan, Deputy Assistant Secretary of the Army for Research and Technology.

Preston, Kurt T, (2003). Environmental Law: Considerations for Operational Planning and Operations, National Security Law Seminar, North Carolina Central University, School of Law.

Preston, Kurt, Editor and Committee Chairperson for Chapter V: Basic Research (2003).

The US Army Science and Technology Master Plan, Deputy Assistant Secretary of the Army for Research and Technology.

Werle, Christopher P, Kurt T. Preston, and Dawn Lafalce (2000). Achieving Integrated Life-Cycle Hazardous Material Management within U.S. Army Europe and Seventh Army. Federal Facilities Journal, John Wiley and Sons.

O'Neil, Robert P., Andrew H. Smyth, Armand A. Balasco, James May, and Kurt T. Preston (1997). "Horizontal Well Ground Water Extraction System Design, Installation and Testing," proceedings of the 23rd American Defense Preparedness Association Environmental Symposium and Exhibition, New Orleans, Louisiana.

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Preston, Kurt (1995). Book Review: Diplomacy by Henry Kissinger, Military Review.

PhD. Dissertation: Co-immobilization of Nitrifying Bacteria and a Natural Zeolite, (1992).

Other Notable Experience:

Contracting Officer Representative Trained, 2011
Top Secret Clearance (Adjudicated: May 2004)
Trained Mediator for North Carolina Superior Court
Led U.S. Delegation to NATO/CCMS Military Compounds Meeting, 2006
Leader and Facilitator, U.S. European Command, Partnership for Peace, Environmental Conference, 1997, 2000, 2001, 2002.
Modestly Proficient (DLAT +1/2) German Language
Lieutenant Colonel, US Army (retired reserve)
OSHA, 40-Hour Hazardous Site Worker Training
Former Commercial Pilot
Former Assistant County Agent, Coweta County Georgia
Former Staff member, Office of US Senator Sam Nunn, Georgia